

FOR OFFICIAL USE ONLY

# DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book  
FY 1997 Budget Estimate

19960412 096

OTHER PROCUREMENT, ARMY  
ACTIVITIES 3/4, OTHER SUPPORT EQUIPMENT & INITIAL SPARES

March 1996

APPROPRIATION

DISTRIBUTION STATEMENT A  
Approved for public release;  
Distribution Unlimited

FOR OFFICIAL USE ONLY

## OTHER PROCUREMENT, ARMY

### APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of vehicles, including tactical, support, and nontracked combat vehicles; communications and electronic equipment; other support equipment; initial spare parts, ordnance, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the forgoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliance, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,627,440,000, to remain available for obligation until September 30, 1999.

Other Procurement, Army

SECTION 3

Comparison of Program Requirements and Financing

Comparison of FY 1996 program requirements as reflected in the FY 1996 Budget with FY 1996 program requirements as shown in the FY 1997 Budget.

Comparison of FY 1996 financing as reflected in the FY 1996 Budget with FY 1996 financing requirements as shown in the FY 1997 Budget.

Comparison of FY 1995 program requirements as reflected in the FY 1996 Budget with FY 1995 program requirements as shown in the FY 1997 Budget.

Comparison of FY 1995 financing as reflected in the FY 1996 Budget with FY 1995 program requirements as shown in the FY 1997 Budget.

**COMPARISON OF FY 1996 PROGRAM REQUIREMENTS  
AS REFLECTED IN THE FY 1996 BUDGET  
WITH THE FY 1996 PROGRAM REQUIREMENTS AS  
SHOWN IN THE FY 1997 BUDGET  
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation	FY 1996 Requirements Per FY 1996 Budget	FY 1996 Requirements Per FY 1997 Budget	Increase or (Decrease)
Other Procurement Army			
Activity 1 - Tactical and Support Vehicles	127,828	440,639	312,811
Activity 2 - Communications and Electronics Equipment	1,691,424	1,813,969	122,545
Activity 3 - Other Support Equipment	351,224	338,819	(12,405)
Activity 4 - Initial Spares	86,125	83,436	(2,689)
	2,256,601	2,676,863	420,262

**EXPLANATION BY ACTIVITY**

Activity 1 - Tactical and Support Vehicles - Increases resulted from Congressional adjustments to the High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) (\$72,000); Family of Medium Tactical Vehicles (FMTV) (\$110,000); Family of Heavy Tactical Vehicles (FHTV) (\$125,000); and Medium Truck ESP (\$20,000) total Congressional increases of \$327,000.

Activity 2 - Communications and Electronics Equipment - Congressional adjustments to Navstar Global Positioning System (\$17,500); Army Data Distribution System (\$25,000); SINGARS Family (\$54,100); EAC Communications (\$40,000); Information Systems (\$-12,000); Local Area Network (\$-10,000); General Defense Intelligence Program (\$-5,221); Commanders Tactical Terminal (\$18,700); FAAD GBS (\$19,200); Night Vision Devices (\$8,000); Advanced Field Artillery Tactical Data System (\$-1,500); FAAD C2 (\$7,400); Maneuver Control System (\$5,000); ADPE (\$6,000); and Integrated Family of Test Equipment (\$18,500) resulted in total adjustments of \$190,679.

Activity 3 - Other Support Equipment - Congressional adjustments to Items Less Than \$2M (POL)(\$-837); Items Less Than \$2M (Float/Rail)(\$-1,000); Nonsystem Training Devices (\$4,500); and Modification of In-Service Equipment (\$-7,500) resulted in total adjustments of \$-4,837.

A proportionate reduction was made for Section 8125 economic assumptions (\$-17,000); Section 8046(D)(FFRDC)(\$-100); Section 8101 (ADP)(\$-3,800); and revised economic assumptions and potential reprogrammings (\$-71,680).



COMPARISON OF FY 1996 FINANCING  
AS REFLECTED IN THE FY 1996 BUDGET  
WITH THE FY 1996 FINANCING AS  
REFLECTED IN THE FY 1997 BUDGET  
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	FY 1996 Requirements Per FY 1996 Budget	FY 1996 Requirements Per FY 1997 Budget	Increase or (Decrease)
Other Procurement Army			
Program Requirements (Total)	2,358,901	2,784,963	426,062
Program Requirements (Service Account)	2,256,601	2,682,663	426,062
Program Requirements (Reimbursable)	102,300	102,300	0
Less:			
Anticipated Reimbursements	(102,300)	(102,300)	0
Proposed Rescissions		(5,800)	(5,800)
<b>BUDGET AUTHORITY</b>			
Appropriation	2,256,601	2,676,863	420,262

# Index for OTHER PROCUREMENT, ARMY

Blin	Nomenclature	SSN	Filename	Page Number
	P1 EXHIBIT			P1-1
	P1N EXHIBIT			P1N-1
102	GEN SMK MECH:MTRZD DUAL PURP XM56	M99103	56225127.97B	1
103	GENERATOR, SMOKE, MECH XM58	M99107	56232127.97B	7
104	GEN SET, SMOKE, MECH: PUL JET,XM157	M99104	56243127.97B	12
106	RIBBON BRIDGE	MA8890	53542138.97B	17
107	DISPENSER, MINE M139	G39100	51122122.97B	24
108	AIR CONDITIONERS VARIOUS SIZE/CAPACITY	MF9300	50208130.97B	29
110	SPACE HEATER	M19600	58264130.97B	49
111	FORCE PROVIDER	M80200	58860130.97B	54
112	REFRIGERATION EQUIPMENT	MA5800	59100130.97B	60
113	ITEMS LESS THAN \$2.0M (CSS-EQ)	ML5325	59536130.97B	74
115	INLAND PETROLEUM DISTRIBUTION SYSTEM	MA5120	57186130.97B	76
117	ITEMS LESS THAN \$2.0M (POL)	ML5330	59034130.97B	85
120	ITEMS LESS THAN \$2.0M (WATER EQ)	ML5335	59510130.97B	87
121	COMBAT SUPPORT MEDICAL	MN1000	57500109.97B	89
122	SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP)	M61500	50532100.97B	95
123	ITEMS LESS THAN \$2.0M (MAINT EQ)	ML5345	59562100.97B	100
124	ROLLER, VIBRATORY, SELF-PROPELLED (CCE)	R03300	53414101.97B	102
125	HYDRAULIC EXCAVATOR	X01500	54428101.97B	107
126	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS	M06105	54429101.97B	112
127	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT	X00800	57302101.97B	118
128	ITEMS LESS THAN \$2.0M (CONST EQUIP)	ML5350	59462101.97B	123
129	PUSHER TUG, SMALL	M44500	51782130.97B	125
130	FLOATING CRANE, 100-250 TON	M32400	53042130.97B	130
132	RAILWAY CAR, FLAT, 100 TON	M37000	54932130.97B	134
133	ITEMS LESS THAN \$2.0M (FLOAT/RAIL)	ML5355	59552130.97B	139
134	GENERATORS AND ASSOCIATED EQUIP	MA9800	50426130.97B	141
135	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB	M41200	55382101.97B	184
136	ALL TERRAIN LIFTING ARTICULATING SYSTEM	M41800	57240101.97B	188

# Index for OTHER PROCUREMENT, ARMY

Blin	Nomenclature	SSN	Filename	Page Number
137	ITEMS LESS THAN \$2.0M (MHE)	ML5365	59254101.97B	194
138	COMBAT TRAINING CENTERS SUPPORT	MA6600	51780113.97B	196
139	TRAINING DEVICES, NONSYSTEM	NA0100	52062113.97B	220
140	SIMNET/CLOSE COMBAT TACTICAL TRAINER	NA0170	56542113.97B	285
141	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER	TT PH1	56610113.97B	295
142	RECONFIGURABLE SIMULATORS	KA6000	50020113.97B	303
143	PHYSICAL SECURITY SYSTEMS (OPA3)	MA0780	50050130.97B	310
144	SYSTEM FIELDING SUPPORT (OPA-3)	MA0070	50120116.97B	323
145	BASE LEVEL COM'L EQUIPMENT	MB7000	50312116.97B	324
147	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	MA4500	51110116.97B	325
148	PRODUCTION BASE SUPPORT (OTH)	MA0450	51220144.97B	356
149	SPECIAL EQUIPMENT FOR USER TESTING	MA6700	51572113.97B	359
151	OPA INITIAL SPARES	MY0035	54000107.97B	372
152	TRACTOR VAPOR	MA8975	59219116.97B	374
155	INITIAL SPARES - TSV	DS1000	50201107.97B	375
156	INITIAL SPARES - C&E	BS9100	50202107.97B	376
157	INITIAL SPARES - OTHER SUPPORT EQUIP	MS3500	50203107.97B	378

DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95		FY 96		FY 97	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**CHEMICAL DEFENSIVE EQUIPMENT**</b>								
97	COLL PROT EQUIP, NBC TEMPER, TENT M28 (SX8001)	A			9,074				
98	MASK, PROTECTIVE, NBC M40/M42 (MA5000)	A		147,100	24,801				
99	REMOTE SENSING CHEMICAL AGENT ALARM XM21 (M96800)	B		156	18,839				
100	IMPROVED CHEMICAL AGENT MONITOR (S02200)	A			1,341				
101	AUTO CHEMICAL AGENT ALARM (ACADA), XM22 (M98800)	B		160	5,455				
102	GEN SMK MECH:MTRZD DUAL PURP XM56 (M99103)	A	189,621	47	12,410			66	12,515
103	GENERATOR, SMOKE, MECH M58 (M99107)	A	289,675			45	12,301	40	11,587
104	GEN SET, SMOKE, MECH: PUL JET, XM157 (M99104)	A	29,449			169	5,052	118	3,475
105	JOINT BIOLOGICAL DEFENSE PROGRAM (MA0800)				4,500				
	<b>SUB-ACTIVITY TOTAL</b>				<b>76,420</b>		<b>17,353</b>		<b>27,577</b>
	<b>**BRIDGING EQUIPMENT**</b>								
106	RIBBON BRIDGE (MA8890)						3,709		4,300
	<b>SUB-ACTIVITY TOTAL</b>						<b>3,709</b>		<b>4,300</b>

DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95		FY 96		FY 97	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**ENGINEER (NON CONSTRUCTION) EQUIPMENT**</b>								
107	DISPENSER, MINE M139 (G39100)	A		179	16,194		923		962
	SUB-ACTIVITY TOTAL				16,194		923		962
	<b>**COMBAT SERVICE SUPPORT EQUIPMENT**</b>								
108	AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)	A			5,227		3,077		1,462
109	CHEM/BIO PROTECTIVE SHELTER (R12300)	B		19	6,989				
110	SPACE HEATER (M19600)	A	8,980	341	2,812	173	1,395	258	2,317
111	FORCE PROVIDER (M80200)	A	5,830,500	2	10,664	2	11,892	2	11,661
112	REFRIGERATION EQUIPMENT (MA5800)	A			72		2,481		4,297
113	ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)	A			4,641		2,152		2,688
	SUB-ACTIVITY TOTAL				30,405		20,997		22,425
	<b>**PETROLEUM EQUIPMENT**</b>								
114	LAB PETROLEUM MODULAR BASE (M68500)	A		1	2,158	1	2,699		
115	INLAND PETROLEUM DISTRIBUTION SYSTEM (MA5120)	A			3,305		1,079		1,064
116	HEMTT AVIATION REFUELING SYSTEM (R21900)	A		113	2,965	21	529		

DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95		FY 96		FY 97	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
117	ITEMS LESS THAN \$2.0M (POL) (ML5330)  SUB-ACTIVITY TOTAL  **WATER EQUIPMENT**	A			8,273		4,554		5,331
									6,395
					16,701		8,861		
118	FWD AREA WTR POINT SUP SYSTEM (M18100)	A		23	418	148	2,607		
119	SMALL MOBILE WATER CHILLER (SMWC) (M15700)	A		99	1,020	387	3,831		
120	ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)  SUB-ACTIVITY TOTAL  **MEDICAL EQUIPMENT**	A			3,969		2,320		2,970
					5,407		8,758		2,970
121	COMBAT SUPPORT MEDICAL (MN1000)  SUB-ACTIVITY TOTAL  **MAINTENANCE EQUIPMENT**				19,209		13,830		15,851
					19,209		13,830		15,851
122	SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP) (M61500)	A	54,419	52	2,812	31	1,723	31	1,687
123	ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)  SUB-ACTIVITY TOTAL	A			1,953		1,405		1,339
					4,765		3,128		3,026

DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95			FY 96		
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)
(1)	(2)	(3)	(4)						
	<b>**CONSTRUCTION EQUIPMENT**</b>								
124	ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)	A		53	7,129	57	6,893		
125	HYDRAULIC EXCAVATOR (X01500)	B	250,000					25	6,250
126	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06105)		385,350			16	9,627	20	7,707
127	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)	A	292,476			6	1,925	21	6,142
128	ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)	A			2,744		1,919		382
	<b>SUB-ACTIVITY TOTAL</b>				<b>9,873</b>		<b>20,364</b>		<b>20,481</b>
	<b>**RAIL FLOAT CONTAINERIZATION EQUIPMENT**</b>								
129	PUSHER TUG, SMALL (M44500)	B	3,438,500			1	3,464	2	6,877
130	FLOATING CRANE, 100-250 TON (M32400)	B	14,328,000					1	14,328
131	CAUSEWAY SYSTEMS (R97500)	A			841				
132	RAILWAY CAR, FLAT, 100 TON (M37000)	A	104,811	109	14,596	110	11,400	138	14,464
133	ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)	A			1,999		2,520		5,728
	<b>SUB-ACTIVITY TOTAL</b>				<b>17,436</b>		<b>17,384</b>		<b>41,397</b>

DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95		FY 96		FY 97	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**GENERATORS**</b>								
134	GENERATORS AND ASSOCIATED EQUIP (MA9800)	A			25,842		13,332		13,187
	<b>SUB-ACTIVITY TOTAL</b>				25,842		13,332		13,187
	<b>**MATERIAL HANDLING EQUIPMENT**</b>								
135	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)	A				30	10,587		
136	ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)		105,649			107	13,954	151	15,953
137	ITEMS LESS THAN \$2.0M (MHE) (ML5365)	A			4,098		2,753		2,666
	<b>SUB-ACTIVITY TOTAL</b>				4,098		27,294		18,619
	<b>**TRAINING EQUIPMENT**</b>								
138	COMBAT TRAINING CENTERS SUPPORT (MA6600)				29,351		21,514		4,714
139	TRAINING DEVICES, NONSYSTEM (NA0100)				78,933		73,688		82,724
140	SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)	A			31,808		29,699		78,400
141	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (NA0174)	B							17,390
	<b>SUB-ACTIVITY TOTAL</b>				140,092		124,901		183,228



DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95			FY 96		
				QTY	COST	(5)	QTY	COST	(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**OTHER SUPPORT EQUIPMENT**</b>								
142	RECONFIGURABLE SIMULATORS (KA6000)	B					12,222		13,835
143	PHYSICAL SECURITY SYSTEMS (OPA3) (MA0780)	A					5,997		7,232
144	SYSTEM FIELDING SUPPORT (OPA-3) (MA0070)				13,609		9,716		9,555
145	BASE LEVEL COM'L EQUIPMENT (MB7000)				9,841		3,244		
146	ARMS CONTROL COMPLIANCE (SX1000)				1,191				
147	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)				35,399		13,959		14,696
148	PRODUCTION BASE SUPPORT (OTH) (MA0450)				4,048		1,777		1,915
149	SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				10,442		8,901		13,549
150	ITEMS LESS THAN \$2.0M (OTH SPT EQ) (ML5390)				843				
151	OPA INITIAL SPARES (MY0035)				61,244		2,169		2,174
152	TRACTOR VAPOR (MA8975)								
153	NATURAL GAS UTILIZATION (MA9760)				2,482				
154	CLOSED ACCOUNT ADJUSTMENTS (MA9999)				49				
	<b>SUB-ACTIVITY TOTAL</b>				<b>139,148</b>		<b>57,985</b>		<b>62,956</b>
	<b>ACTIVITY TOTAL</b>				<b>505,590</b>		<b>338,819</b>		<b>423,374</b>

DEPARTMENT OF THE ARMY  
FY 97 PROCUREMENT PROGRAM

EXHIBIT P-1  
March 1996

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 4. \*\*INITIAL SPARES\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 97 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 95		FY 96		FY 97	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	**INITIAL SPARES OPA1**								
155	INITIAL SPARES - TSV (DS1000)						1,067		94
	SUB-ACTIVITY TOTAL						1,067		94
	**INITIAL SPARES OPA2**								
156	INITIAL SPARES - C&E (BS9100)						80,395		60,503
	SUB-ACTIVITY TOTAL						80,395		60,503
	**INITIAL SPARES OPA3**								
157	INITIAL SPARES - OTHER SUPPORT EQUIP (MS3500)						1,974		1,006
	SUB-ACTIVITY TOTAL						1,974		1,006
	ACTIVITY TOTAL						83,436		61,603
	APPROPRIATION TOTAL				2,610,172		2,676,863		2,627,440

PROCUREMENT PROGRAM - INSTALLATION SUMMARY

System/Modification	(TOA, Dollars in Millions)									
	1994 & Prior	1995	1996	1997	1998	1999	2000	2001	TOTAL	
MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)										
Landing Craft, Mechanized 8 ton, Equipment Upg			0.1	0.5	0.5	0.4			1.5	
Lighter Amphibious Resupply Cargo 60, Svc Life				1.0	1.9	2.4	2.4	2.4	10.1	
Marine CEN Equipment Upgrade					0.2	0.2	0.2		0.6	
Recompression Chamber Diving, Certification Up		0.4	0.5						0.9	
Laundry Units, Water Reuse System			0.1						0.1	
Refrigeration Equipment, Power Generation				0.4					0.4	
M-9 ACE Micro-Climatic Cooling System		0.1	1.1	0.2		1.4			1.4	
System Improvement Plan, M-9 ACE				1.4			0.3	0.5	3.6	
UPGRADE 100' TUG					1.2	2.4	2.4	1.2	7.2	
Total		0.5	1.9	3.5	5.2	5.4	5.3	4.1	25.8	
Grand Total		0.5	1.9	3.5	5.2	5.4	5.3	4.1	25.8	

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					
GEN SMK MECH-MTRZD DUAL PURP M56 (M99103)										
QUANTITY	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
	0	47	0	66	71	125	0	0		
COST (in millions)	0.0	12.4	0.0	12.5	12.7	23.3	0.0	1.0		
<p><b>DESCRIPTION:</b></p> <p>The M56, mounted on the High Mobility Multipurpose Wheeled Vehicle (HMMWV), will disseminate smoke on the move and from stationary positions to defeat enemy sensors and smart munitions such as tank thermal sights, guided munitions, directed energy weapons, and other systems operating in the visual through far-infrared regions of the electromagnetic spectrum. The system uses a turbine engine as a power source to disseminate large area obscurant clouds. The visual screening module is capable of vaporizing fog oil for up to 90 minutes and the infrared module is capable of disseminating a particulate material to provide 30 minutes of screening. A pre-planned product improvement (P3I) for millimeter wave obscuration will be capable of producing a 30 minute screen.</p> <p><b>JUSTIFICATION:</b></p> <p>The M56 will operate in support of Force Package 1 light and airborne maneuver units. The FY97 quantity of 66 systems is required as part of the total Force Package 1 quantity of 333 systems.</p> <p><b>NOTE:</b> Quantity on FYDP for FY99 is inaccurate and should be 119 rather than 125</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON GEN SMK MECH:MTRZD DUAL PURP M56 (M99103)				C. MANUFACTURER NAME		D. DATE March 1996	
OPA Cost Elements	ID CD	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	UnitCost \$000	TotalCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
Contract, Production	A			7517	47	160				9675	66		147
Engineering Change Proposals (ECP)				439						262			
Depot Maintenance Work Requirement				478						200			
Government Furnished Equipment					612					594			
Production Verification Test					300								
Engineering Support				3064						1784			
TOTAL				12410						12515			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 3 / Other Support Equipment				C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
FY94	Robotic Systems Tech Westminster, MD	C/FP M5(1)	CBD COM	Mar-95	Dec-96	30	141300	YES	NO		
FY95	Robotic Systems Tech Westminster, MD	C/FP M5(1)	CBD COM	Mar-95	Apr-97	47	159936	YES	NO		
FY96		*									
FY97	Robotic Systems Tech Westminster, MD	C/FP M5(3)	CBD COM	Nov-96	Nov-97	66	146591	YES	NO		

REMARKS:

\* The M58 begins buying basic generator components as the second year of the M56 production contract.









BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		GENERATOR, SMOKE, MECH M58 (M99107)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY	0	0	45	40	27	19	0	0			
COST (in millions)	0.0	0.0	12.3	11.6	9.3	7.0	0.0	0.0			
<p><b>DESCRIPTION:</b></p> <p>The M58 is a mechanized multi-spectral smoke and obscurant system made by integrating smoke generator components from the M56 motorized smoke generator program, M113A3 Armored Personnel Carriers (APC), a Drivers Vision Enhancer (DVE), and gas particulate filter unit for Chem/Bio protection. Fabrication of unique parts and assemblies and the integration of above Government Furnished Equipment (GFE) will occur at Anniston Army Depot (ANAD).</p> <p><b>JUSTIFICATION:</b></p> <p>The M58 will operate in support of force package 1 heavy maneuver units. The FY97 quantity of 40 units is required as part of the M58 requirement of 140 systems.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON GENERATOR, SMOKE, MECH M58 (M99107)				C. MANUFACTURER NAME		D. DATE March 1996	
Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Smoke Generator Components Engineering Change Proposals (ECP)	A							5251 509	45	117	4606 453	40	115
System Application to M113A3 Engineering Change Proposals (ECP)								1664 166	45	37	1479 148	40	37
Drivers Visual Enhancer								1248	45	28	1500	40	38
Gas Particulate Filter Unit (GPFU)								131	45	3	117	40	3
Manuals								623			450		
Other Government Agencies (OGA)								831			880		
Production Verification Test (PVT)											298		
Engineering Support								1878			1656		
TOTAL								12301			11587		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 3 / Other Support Equipment				C. P-1 ITEM NOMENCLATURE GENERATOR, SMOKE, MECH M58 (M99107)				
DATE		March 1996								
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Smoke Generator Components	Robotic Systems Tech Westminster Maryland	*	CBD COM					YES	NO	
FY 96		C/FP M5(2)		Jan-96	Jan-97	45	117			
FY 97		C/FP M5(3)		Dec-96	Jan-98	40	115			
System Application to M113A3	Anniston Army Depot Anniston Alabama	**	CBD COM					YES	NO	
FY 96				Mar-96	Jan-97	45	37			
FY 97				Dec-96	Jan-98	40	37			
Drivers Visual Enhancer	Texas Instruments Dallas Texas		CECOM					YES	NO	
FY 96		C/FP M1		Mar-96	May-96	45	28			
FY 97		C/FP M2		Dec-96	Feb-97	40	38			
Gas Particulate Filter Unit (GPFU)	To Be Selected (TBS)		TACOM/ACALA					YES	NO	
FY 96		C/FP M1		Apr-96	Dec-96	45	3			
FY 97		C/FP M2		Feb-97	Dec-98	40	3			
REMARKS:      *    The smoke generator components contract was awarded as the 2nd year of the M56 Multi-Year contract. **    Statement of Work (SOW) provided to Anniston Army Depot for M58 system application to the M113A3										

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										GENERATOR, SMOKE, MECH M58 (M99107)										DATE										March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
COST ELEMENTS										M F R										S E R V										PROC QTY Each										ACCEP. PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										Fiscal Year 96										Fiscal Year 97										L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
																																																												O N D E C										J A N F										M A P R										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M										J J A M									



**THIS PAGE IS INTENTIONALLY BLANK**



BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					GEN SET, SMOKE, MECH; PUL. JET, M157A2 (M99104)
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY	0	0	169	118	0	0	0	0		
COST (in millions)	0.0	0.0	5.1	3.5	0.0	0.0	0.0	0.0		

**DESCRIPTION:**

The M157A2 program includes procurement of new systems to replace the W.W.II M3A4 static system, and modification kits (MA4501) to upgrade all existing M157 systems. The M157A2 Smoke Generator System (SGS) utilizes two remote operated pulse jet generators to vaporize fog oil to produce large area visual smoke screens. System consists of two generators, one control panel, one air compressor assembly, one fog oil pump assembly and associated hoses, mounting kits (M284A1) and electrical cables. The M157A2 incorporates essential user requested safety and operational improvements, such as smaller control panel, improved fire detection system, fuel water separator/filter and new engine head which expands the capability from sea level to 8,000 feet. The M157A2 will permit the two generators to utilize JP8, JP5, DF1, DF2, and DFA to produce heat in accordance with fuel standardization requirements. The M157A2 will also be incorporated into the M1059 Smoke Generator Carrier, using modifications kits (MA4501).

**JUSTIFICATION:**

The M157A2 FY97 procurement supports both light and heavy maneuver units. This class of smoke generator comprises 2/3 of the total force requirements and eliminates the requirement for gasoline (MOGAS) and eliminates several recurring safety deficiencies throughout that force.

OPA Cost Analysis		A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON GEN SET, SMOKE, MECH: PUL JET, M157A2 (M99104)				C. MANUFACTURER NAME				D. DATE March 1996	
ID	CD	FY 94		FY 95		FY 96		FY 97							
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	TotalCost	Qty	UnitCost	UnitCost	Each	\$000
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	Each	\$000	\$000		
OPA Cost Elements															
M157A2 Generator Set (Includes M284A1 Mounting Kits) Engineering Change Proposals (ECP)								4433	169	26				118	26
First Article Test/Production Verification Test								65							
Engineering Support								150							
								404							
TOTAL								5052							
								3475							

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE March 1998	
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										GEN SET, SMOKE, MECH: PUL JET, M157A2 (M99104)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
M157A2 Generator Set FY 87 FY 96 FY 97	Minowitz Roseville, Michigan TBS TBS	*C/FP **C/FP M1 C/FP M2	AMCCOM ACALA ACALA	Sep-87 Mar-96 Jan-97	Nov-88 Dec-96 Nov-97	320 169 118	16 26 26	YES YES YES	NO NO NO		
REMARKS: * This effort was for the M157 which did not include the improvements or the M284 mounting kits. ** Contract incorporates priced options.											





**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		RIBBON BRIDGE (MA8890)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)	0.0	0.0	3.7	4.3	4.4	4.4	9.0	10.5			
<p><b>DESCRIPTION</b> - The Ribbon Bridge consists of Interior Bays (M26600), Ramp Bays (M26700), Bridge Erection Boats (M23600) and Transporters (M26800). These components are required to transport, launch, erect and retrieve a floating bridge up to 200 meters long per bidge company. Ribbon Bridges have a capacity of 80 tons and are used to transport weapon systems, troops and supplies over water when permanent bridges are not available.</p> <p><b>JUSTIFICATION</b> - The Ribbon Bridge provides the capability for a continuous floating roadway to be constructed for transporting assault and tactical vehicles across streams and rivers that cannot be forded. Procurement of the Improved Common Bridge Transporter (ICBT) is planned for FY96 and FY97. Improvements provide a vehicle that will replace the current overaged fleet with a vehicle that will improve mobility and enhance readiness by decreasing construction and retrieval time.</p>											





BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		BRIDGE, FLOAT-RIBBON, TRANSPORTER (M26800)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY	0	0	23	46	46	46	46	46			
COST (in millions)	0.0	0.0	3.7	4.3	4.4	4.4	4.5	4.6			
<p>DESCRIPTION - The Improved Common Bridge Transporter (ICBT) consists of a combination of a ribbon bridge launcher and retrieval mechanism Load Handling System (LHS) and Bridge Adaptor Pallet (BAP). The transporter shall have the capability of transporting, launching, and retrieving the fielded ribbon bridge interior bay, ramp bay, bridge erection boat, and bridge adaptor pallet. Also the ICBT shall load/unload and transport the Palletized Load System (PLS) NATO standard flatracks.</p> <p>JUSTIFICATION - The Improved Common Bridge Transporter (ICBT) will replace current, overaged 5 ton transporters, with 10 ton capacity transporters. The ICBT will decrease transportation and construction/retrieval time, thus increasing mobility and readiness of the Ribbon Bridge companies.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON BRIDGE, FLOAT-RIBBON, TRANSPORTER (M26800)				C. MANUFACTURER NAME Oshkosh Truck Corp.				D. DATE March 1996	
OPA Cost Elements	ID CD	FY 94		FY 95		FY 96		FY 97							
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty* Each	UnitCost \$000	TotalCost \$000	Qty* Each	UnitCost \$000		
1. Vehicle	B							2369	23		103	38	105		
2. Engineering Changes								24			40				
3. Testing								26							
4. Data								1030							
5. Government Engineering								260			268				
* P-1 Qty Not Updated															
TOTAL								3709			4300				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
BRIDGE, FLOAT-RIBBON, TRANSPORTER (M26800)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. Vehicle										
FY 96	VSE Corp., Alexandria, VA	SS/FFP	TACOM	May-96	Jan-97	23	103	Yes	No	
FY 97	VSE Corp., Alexandria, VA	SS/FFP	TACOM	Dec-96	Aug-97	38	105	Yes	No	
REMARKS:										





**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Other Support Equipment		DISPENSER, MINE M139 (G39100)						
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
		179	0	0				
COST (in millions)		16.2	0.9	1.0				
<p><b>DESCRIPTION:</b></p> <p>The M139 Mine Dispenser for the VOLCANO system, mounted on a variety of ground vehicles and the UH-60 helicopter, is used to emplace the GATOR BLU-91/B Anti-Tank and the BLU-92/B Anti-Personnel mines. The system consists of four launcher racks and a dispenser control unit which are common to all vehicles/aircraft and mounting hardware which is adapted to each model. The System is critical for the United States Army to be able to conduct Full-Dimensional Operations. This system is designed for quick connect/disconnect to aid loading/unloading in the field. It will permit quick emplacement of a mine-field (1000 meters by 100 meters) that will delay, disrupt, and canalize enemy forces and restrict their use of critical routes or terrain.</p> <p><b>JUSTIFICATION:</b></p> <p>The VOLCANO system is the centerpiece of the Army landmine system. These dispensers will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of a greater number of personnel to hostile fire.</p> <p>The FY 1997 funds will provide for continued program support.</p>								

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON DISPENSER, MINE M139 (G39100)			C. MANUFACTURER NAME Intellitech, De Land, FL			D. DATE March 1996	
Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97	
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each
1. M139 Dispenser (M548 AMMO CARRIER)	A				14093	158	89196					
2. Installation Kit for M548 AMMO CARRIER	A				682	20	34100					
<b>Subtotal HARDWARE COST</b>					<b>14775</b>							
3. Project Management Administration					30						100	
4. Engineering Support					972						782	
5. Documentation					50							
6. Quality Assurance					80						80	
7. Acceptance Testing					287							
<b>Subtotal SUPPORT COST</b>					<b>1419</b>			<b>923</b>			<b>962</b>	
<b>GROSS P-1 END COST</b>					<b>16194</b>			<b>923</b>			<b>962</b>	
FY95 Quantity of 158 each reflects actual quantity in executed contract												



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
DISPENSER, MINE M139 (G39100)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. M139 Dispenser (M548 AMMO CARRIER) FY 92 FY 95	Brunswick, DeLand, FL Intellitec, DeLand, FL	C/FP C/FP	ARDEC ARDEC	Aug-92 Aug-95	Jul-93 Aug-97	130 158	93931 89196	YES YES		
2. Installation Kit for M548 AMMO CARRIER FY 95	Intellitec, DeLand, FL	C/FP	ARDEC	Aug-95	May-98	20	34100	YES		
<b>REMARKS:</b> These Installation Kits were procured in order to respond to US Army Fielding Plan updates. M139 Dispensers without Installation Kits are available from the FY93 UH-60 Air System buy. Twenty additional M139 Dispensers with Installation Kits for the M548 Ammo Carrier will be fielded.										

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DISPENSER, MINE M139 (G39100)										DATE										March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
COST ELEMENTS										M F R										S E R V										PROC QTY Each										ACCEP. PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										Fiscal Year 96										Fiscal Year 97										L A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
																																																												Calendar Year 96										Calendar Year 97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT / Other Support Equipment		AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)					
QUANTITY	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
COST (in millions)		5.2	3.1	1.5	1.5	4.8	4.7
							4.8

**DESCRIPTION:** This budget line represents the Army's family of tactical Environmental Control Units, (ECU's), commonly known as Air Conditioners (A/C's). ECU's provide both cooling and electrical heating for controlled environment concept. They range in size from 9,000 to 60,000 BTU, and are powered by a wide range of common currents supplied for various systems either by mobile electric power systems or hardwired into existing facilities. New technology has been incorporated into the 18,000 BTU and 36,000 BTU that allows the ECU to accept various power phases, voltages and hertz used currently within the Army. This Multiple-Power-Input (MPI) Technology has allowed for reduction in configurations managed; a single configuration now replaces three or four configurations that were managed because of the source of power available. MPI ECU's have reduced configurations managed from 33 Standard Study Numbers (SSN's) down to 7 SSN's. The sole exception, which will not incorporate MPI technology, is the 60,000 BTU, Compact Vertical, which remains as a 3 Phase, 208 Volts, 50/60 Hertz power requirement. All ECU's are base mounted and electric motor driven. ECU's also provide dehumidification and filtering of air in support of environmentally sensitive electronic equipment in mobile shelters and vans. Critical electronic equipment housed within systems produce heat that contributes to and must be controlled for proper operation. ECU's support 181 separate tactical weapon systems. The majority of the weapon systems are command, control, and communication oriented. Other applications include ground support equipment, satellite communications, intelligence gathering systems, petroleum and water logistics laboratories, electronic shop sets, Test, Measurement and Diagnostic Equipment (TMDE), aviation shop sets and topographic support sets.

**JUSTIFICATION:** Environmental Control Units are required as a component or separately authorized in support of fielded tactical weapon systems. They are required to fill existing shortages or provide replacements for assets that are overaged, non supportable and non repairable. ECU's are critical to the system they support. Without these ECU's, critical systems become incapable of performing their mission. Additionally on a continuing basis, ECU's are required to fill urgent shortages on new fieldings of high priority weapon systems. Recent policies enacted at the federal and Department of Defense level have greatly impacted the ECU mission in weapon system supportability. Public laws that restrict the production of Class I and Class II Ozone Depleting Chemicals, (R-12, Class I and R-22, Class II are the refrigerants currently used in A/C's and ECU's) have limited the long term supportability of fielded A/C's and ECU's.

Government Engineering planned for FY 97 supports four production contracts awarded in prior years. Contracts being supported are two 36,000 BTU contracts, awarded in FY 90 and FY 92 (vertical and horizontal) and planned FY 97 acquisitions. FY 97 Program includes acquisition of the 9000 BTU Vertical and Horizontal Multi Power-Input Technology (MPI) Units. The MPI technology eliminates seven configurations of 9,000 BTU's. The two previous 36,000 BTU (MPI) awards generated 300 Engineering Change Proposals (ECP's) that were processed between contract award and First Article Test. It is anticipated that incorporation of MPI will generate similar numbers of ECP's on the 9,000 BTU contracts.



BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other										
Support Equipment										
P-1 ITEM NOMENCLATURE										
Air Conditioner, 9,000 BTU C/V (M910)										
QUANTITY	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
				100						
COST (in millions)				0.5						
<p><b>DESCRIPTION:</b> This air conditioner is a 9,000 BTU, compact vertical, Multi-Power-Input, base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include the receiving set radio (AN/TRR-18) and the Transmitter set radio (AN/TRT-22).</p> <p><b>JUSTIFICATION:</b> The FY 97 9000 BTU Program is being updated with Vertical/Horizontal Multi-Power-Input (MPI) Technology. This system change will eliminate seven configurations of the 9000 BTU's. This is a major Force Modernization upgrade that will provide state of the art technology to this air conditioner, and drastically reduce maintenance and support cost.</p>										





BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
Air Conditioner, 9,000 BTU, C/V (M910)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Hardware FY 87	KECO	CFFP-REQ-3	TROSCOM	Jan-87	Jul-87	47	4,928	Yes	No		
FY 97	TBD	CFFP-REQ-3(1)	ATCOM	May-97	Nov-98	100	5,360	No	Yes		Jan-97
<b>REMARKS:</b> Last buy on this item was in 1987. Configuration at that time was 3 phase 50/60 Hertz. Configuration to be bought in FY 97 will include multiple power input technology. Limited Initial Production Rate for base award with negotiated type contract for option years.											





**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE					March 1996
		Air Conditioner, 9,000 BTU, C/H (M916)					
QUANTITY		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
					85		
COST (in millions)					0.5		
<p><b>DESCRIPTION:</b> This air conditioner is a 9,000 BTU, compact horizontal, Multi-Power-Input, base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include the communications control set (AN/TSQ-182), communications technical control center (AN/TSQ-84), and the data analysis center (AN/TYK-10).</p> <p><b>JUSTIFICATION:</b> The FY 97 9000 BTU Program is being updated with Vertical/Horizontal Multi-Power-Input (MPI) Technology. This system change will eliminate seven configurations of the 9000 BTU's. This is a major Force Modernization upgrade that will provide state of the art technology to this air conditioner, and drastically reduce maintenance and support cost.</p>							

OPA Cost Analysis				A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Air Conditioner, 9,000 BTU, C/H (M916)				C. MANUFACTURER NAME TBD		D. DATE March 1996		
OPA Cost Elements				FY 94			FY 95			FY 96			FY 97			
				TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	
HARDWARE																
WARRANTY																
TOTAL														465	85	5,412

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										Air Conditioner, 9,000 BTU, C/H (M916)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES WIA	
HARDWARE FY 87	KECO	CFF-REQ-3	TROSCOM	Jan-87	Jul-87	47	4,928	Yes	No		
FY 97	TBD	CFF-REQ-3(1)	ATCOM	May-97	Nov-98	85	5,412	No	Yes	Jan-97	
<b>REMARKS:</b> Last buy on this item was in 1987. Configuration at that time was 3 phase 50/60 Hertz. Configuration to be bought in FY 97 will include multiple power input technology. Limited Initial Production Rate for base award with negotiated type contract for option years.											







**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE Air Conditioner, 36,000 BTU, CV (M813)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		30	35					
COST (in millions)		0.2	0.3					
<p>DESCRIPTION: This air conditioner is a 36,000 BTU, compact vertical, Multi-Power-Input, base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, fire directional support systems, laboratories, radar, aircraft and electronic shop sets. Specific examples include the Guided Missile Battery Control (HAWK), and the Surveillance Information Processing Center (AN/TSQ-105(V)3).</p>								

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT / Other Support Equipment		Air Conditioner, 36,000 BTU, C/H (M811)					
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY			311				FY 2001
COST (in millions)			1.9				

DESCRIPTION: This air conditioner is a 36,000 BTU, compact horizontal, Multi-Power-Input, base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, fire directional support systems, laboratories, radar, aircraft and electronic shop sets. Specific examples include the Guided Missile Battery Control (HAWK), and the Surveillance Information Processing Center (AN/TSQ-105(V)3).



OPA Cost Analysis										B. WEAPON Air Conditioner, 36,000 BTU C/V (M813)				C. MANUFACTURER NAME KECO, Florence, KY		D. DATE March 1996			
A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment										FY 94		FY 95		FY 96		FY 97			
OPA Cost Elements										TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	
HARDWARE													223	30	7,433	259	35	7,400	
WARRANTY													2			11			
TOTAL													225			270			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						DATE				
B. APPROPRIATION / BUDGET ACTIVITY						March 1996				
C. P-1 ITEM NOMENCLATURE										
Air Conditioner, 36,000 BTU C/H (M811)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE										
FY 90	AIRTAC, RED LION, PA	CFP-REQ-3	ATCOM	Aug-90	Sep-92	67	5,675	YES	NO	
FY 96	AIRTAC, RED LION, PA	CFP-REQ(2)	ATCOM	Mar-96	Aug-96	311	6,100	YES	NO	
REMARKS: FY 90 contract with three ordering periods beginning after acceptance of FAT. FAT accepted Apr 93.										



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
C. P-1 ITEM NOMENCLATURE											
Air Conditioner, 36,000 BTU C/V (M813)											
LINE ITEM / BUDGET ACTIVITY	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES WIA	
HARDWARE											
FY 92	KECO, Florence, KY	CFP-REQ-3	ATCOM	Jul-92	Jun-95	46	7,027	YES	NO		
FY 95	KECO, Florence, KY	CFP-REQ3(1)	ATCOM	Jul-95	Jan-96	30	7,433	YES	NO		
FY 96	KECO, Florence, KY	CFP-REQ3(2)	ATCOM	Mar-96	Sep-96	35	7,400	YES	NO		
REMARKS: FY 92 contract with three ordering periods beginning after acceptance of FAT. FAT accepted May 94. Delay in FAT due to incorporation of ECPs and acceptance of FAT report.											

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										Air Conditioner, 36,000 BTU C/H (M811)										DATE										March 1996																							
COST ELEMENTS										M F R		S E R V		PROC QTY Each		ACCEP. PRIOR TO 1 OCT		BAL DUE AS OF 1 OCT		Fiscal Year 95										Fiscal Year 96										Fiscal Year 96										L A T E R													
										FY 90		FY 96		A		311		67		0		311		Calendar Year 95										Calendar Year 96										Calendar Year 96										S E P									
										1		1		A		311		67		0		311		O N D J																																							



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION / BUDGET ACTIVITY							March 1996	
OTHER PROCUREMENT / Other								
Support Equipment								
P-1 ITEM NOMENCLATURE								
SPACE HEATER (M19600)								
QUANTITY	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
		341	173	258			100	150
COST (in millions)		2.8	1.4	2.3			0.5	0.7
<p><b>DESCRIPTION:</b> The Army Space Heater (ASH) is electrically powered, requiring maximum 3 kilowatt of external power. It is thermostatically controlled using either diesel or jet petroleum-8 fuels to produce heat. The ASH is mobile and will deliver clean, heated or vented air through sealed detachable, flexible ducts. It is suitable for arctic use. The main mission of this heater is to heat maintenance tents in cold environments so that soldiers can safely repair a wide variety of equipment such as trucks, tanks, helicopters, Hawk, Patriot, and Multiple Launch Rocket System. Additionally, it supports field artillery and medical units.</p> <p><b>JUSTIFICATION:</b> This heater is a non developmental item that will replace the current 250,000 BTU gasoline engine driven (GED) heater. It will correct the deficiencies found in the 250,000 BTU GED heater, specifically gasoline will be replaced by diesel fuel, meeting the DOD regulations to have one fuel on the battlefield. It will be safer for the personnel operating equipment in enclosed areas because it reduces carbon monoxide emissions. The ASH is a stand alone item that supports the function of providing heat for maintenance, operations and comfort. The FY 97 buy will be for 258 Army Space Heaters to support critical mission essential Aviation, Medical, Armor, and Artillery Contingency Forces.</p>								

OPA Cost Analysis				A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON SPACE HEATER (M19600)				C. MANUFACTURER NAME Engineer Air Systems, Inc. St. Louis, MO				D. DATE March 1996	
OPA Cost Elements				FY 94		FY 95		FY 96		FY 97		FY 97		FY 97			
				TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$		
HARDWARE							2,766	341	8,111	1,295	159	8,145	2,219	258	8,601		
GOVERNMENT ENGINEERING							46			100			35				
DOCUMENTATION													20				
FIRST ARTICLE TESTING													43				
TOTAL							2,812			1,395			2,317				
P40 and P5 qty variation in FY 96 is the direct result of a hardware decrement in support of engineering due to quantity being fielded in FY96.  The FY 97 program will be a new buy and unit cost is higher because of various configuration changes recently introduced into this program.																	

P40 and P5 qty variation in FY 96 is the direct result of a hardware decrement in support of engineering due to quantity being fielded in FY96.

The FY 97 program will be a new buy and unit cost is higher because of various configuration changes recently introduced into this program.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE										
FY 92	Engineer Air Sys, St. Louis MO	CFP-REQ 2(1)	ATCOM	Sep-92	Dec-94	223	4,906	YES	NO	
FY 94	Engineer Air Sys, St. Louis MO	CFP-REQ 2(1)	ATCOM	Aug-94	Nov-95	128	4,906	YES	NO	
FY 95	Engineer Air Sys, St. Louis MO	CFP-REQ 2(2)	ATCOM	Aug-95	Feb-96	341	8,111	YES	NO	
FY 96	Engineer Air Sys, St. Louis MO	CFP-REQ 2(2)	ATCOM	Mar-96	Aug-96	159	8,145	YES	NO	
FY 97	TBD	CFP-OPTION	ATCOM	Apr-97	Jul-98	258	8,601	NO	YES	Sep-96
<b>REMARKS:</b> This is a requirements type contract with two ordering periods. The second ordering period expired in April 1995 and ATCOM negotiated with the contractor to reestablish the ordering period to the current contract for FY 95 and 96. FY 97 will be a new buy.  FY 92 & 94 programs are reflected on Items Less Than \$2.0M CSS-EQ.  The FY 95 price increase is due to a price renegotiation with the contractor. Excessive problems with technical specifications and scrap rates.										

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										SPACE HEATER (M19600)										DATE										March 1996										L A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
COST ELEMENTS										Fiscal Year 95										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96										Fiscal Year 96									



FY 96 / 97 BUDGET PRODUCTION SCHEDULE										SPACE HEATER (M19600)										DATE									
P-1 ITEM NOMENCLATURE										Fiscal Year 97										Fiscal Year 98									
										Calendar Year 97										Calendar Year 98									
										M F R										M F R									
										S E R V										S E R V									
										QTY Each										QTY Each									
										ACCEP. PRIOR TO 1 OCT										ACCEP. PRIOR TO 1 OCT									
										BAL DUE AS OF 1 OCT										BAL DUE AS OF 1 OCT									
										M F R										M F R									
										FY 92										FY 93									
										FY 94										FY 95									
										FY 96										FY 97									
										FY 98										FY 99									
										FY 00										FY 01									
										FY 02										FY 03									
										FY 04										FY 05									
										FY 06										FY 07									
										FY 08										FY 09									
										FY 10										FY 11									
										FY 12										FY 13									
										FY 14										FY 15									
										FY 16										FY 17									
										FY 18										FY 19									
										FY 20										FY 21									
										FY 22										FY 23									
										FY 24										FY 25									
										FY 26										FY 27									
										FY 28										FY 29									
										FY 30										FY 31									
										FY 32										FY 33									
										FY 34										FY 35									
										FY 36										FY 37									
										FY 38										FY 39									
										FY 40										FY 41									
										FY 42										FY 43									
										FY 44										FY 45									
										FY 46										FY 47									
										FY 48										FY 49									
										FY 50										FY 51									
										FY 52										FY 53									
										FY 54										FY 55									
										FY 56										FY 57									
										FY 58										FY 59									
										FY 60										FY 61									
										FY 62										FY 63									
										FY 64										FY 65									
										FY 66										FY 67									
										FY 68										FY 69									
										FY 70										FY 71									
										FY 72										FY 73									
										FY 74										FY 75									
										FY 76										FY 77									
										FY 78										FY 79									
										FY 80										FY 81									
										FY 82										FY 83									
										FY 84										FY 85									
										FY 86										FY 87									
										FY 88										FY 89									
										FY 90										FY 91									
										FY 92										FY 93									
										FY 94										FY 95									
										FY 96										FY 97									
										FY 98										FY 99									
										FY 00										FY 01									
										FY 02										FY 03									
										FY 04										FY 05									
										FY 06										FY 07									
										FY 08										FY 09									
										FY 10										FY 11									
										FY 12										FY 13									
										FY 14										FY 15									
										FY 16										FY 17									
										FY 18										FY 19									
										FY 20										FY 21									
										FY 22										FY 23									
										FY 24										FY 25									
										FY 26										FY 27									
										FY 28										FY 29									
										FY 30										FY 31									
										FY 32										FY 33									
										FY 34										FY 35									
										FY 36										FY 37									
										FY 38										FY 39									
										FY 40										FY 41									
										FY 42										FY 43									
										FY 44										FY 45									
										FY 46										FY 47									
										FY 48										FY 49									
										FY 50										FY 51									
										FY 52										FY 53									
										FY 54										FY 55									
										FY 56										FY 57									
										FY 58										FY 59									
										FY 60										FY 61									
										FY 62										FY 63									
										FY 64										FY 65									
										FY 66										FY 67									
										FY 68										FY 69									
										FY 70										FY 71									
										FY 72										FY 73									
										FY 74										FY 75									
										FY 76										FY 77									
										FY 78										FY 79									
										FY 80										FY 81									
										FY 82										FY 83									
										FY 84										FY 85									
										FY 86										FY 87									
										FY 88										FY 89									
										FY 90										FY 91									
										FY 92										FY 93									
										FY 94										FY 95									
										FY 96										FY 97									
										FY 98										FY 99									
										FY 00										FY 01									
										FY 02										FY 03									
										FY 04										FY 05									
										FY 06										FY 07									
										FY 08										FY 09									
										FY 10										FY 11									
										FY 12										FY 13									
										FY 14										FY 15									
										FY 16										FY 17									
										FY 18										FY 19									
										FY 20										FY 21									
										FY 22										FY 23									
										FY 24										FY 25									
										FY 26										FY 27									
										FY 28										FY 29									
										FY 30										FY 31									
										FY 32										FY 33									
										FY 34										FY 35									
										FY 36										FY 37									
										FY 38										FY 39									
										FY 40										FY 41									
										FY 42										FY 43									
										FY 44										FY 45									
										FY 46										FY 47									
										FY 48										FY 49									
										FY 50										FY 51									
										FY 52										FY 53									
										FY 54										FY 55									
										FY 56										FY 57									
										FY 58										FY 59									
										FY 60										FY 61									
										FY 62										FY 63									
										FY 64										FY 65									
										FY 66										FY 67									
										FY 68										FY 69									
										FY 70										FY 71									
										FY 72										FY 73									
										FY 74										FY 75									
										FY 76										FY 77									
										FY 78										FY 79									
										FY 80										FY 81									
										FY 82										FY 83									
										FY 84										FY 85									
										FY 86										FY 87									
										FY 88										FY 89									
										FY 90										FY 91									
										FY 92										FY 93									
										FY 94										FY 95									
										FY 96										FY 97									
										FY 98										FY 99									
										FY 00										FY 01									
										FY 02										FY 03									
										FY 04										FY 05									
										FY 06										FY 07									
										FY 08										FY 09									
										FY 10										FY 11									
										FY 12										FY 13									
										FY 14										FY 15									
										FY 16										FY 17									
										FY 18										FY 19									
										FY 20										FY 21									
										FY 22										FY 23									
										FY 24										FY 25									
										FY 26										FY 27									
										FY 28										FY 29									
										FY 30										FY 31									
										FY 32										FY 33									
										FY 34										FY 35									
										FY 36										FY 37									
										FY 38										FY 39									
										FY 40										FY 41									
										FY 42										FY 43									
										FY 44										FY 45									
										FY 46										FY 47									
										FY 48										FY 49									
										FY 50										FY 51									
										FY 52										FY 53									
										FY 54										FY 55									
										FY 56										FY 57									
										FY 58										FY 59									
										FY 60										FY 61									
										FY 62										FY 63									
										FY 64										FY 65									
										FY 66										FY 67									
										FY 68										FY 69									
										FY 70										FY 71									
										FY 72										FY 73									
										FY 74										FY 75									
										FY 76										FY 77									
										FY 78										FY 79									
										FY 80										FY 81									
										FY 82										FY 83									
										FY 84										FY 85									
										FY 86										FY 87									
										FY 88										FY 89									
										FY 90										FY 91									
										FY 92										FY 93									
										FY 94										FY 95									
										FY 96										FY 97									
										FY 98										FY 99									
										FY 00										FY 01									
										FY 02										FY 03									
										FY 04										FY 05									
										FY 06										FY 07									
										FY 08										FY 09									
										FY 10										FY 11									
										FY 12										FY 13									
										FY 14										FY 15									
										FY 16										FY 17									
										FY 18										FY 19									
										FY 20										FY 21									
										FY 22										FY 23									
										FY 24										FY 25									
										FY 26										FY 27									
										FY 28										FY 29									
										FY 30										FY 31									
										FY 32										FY 33									
										FY 34										FY 35									
										FY 36										FY 37									
										FY 38										FY 39									
										FY 40										FY 41									
										FY 42										FY 43									
										FY 44										FY 45									
										FY 46										FY 47									
										FY 48										FY 49									
										FY 50										FY 51									
										FY 52										FY 53									
										FY 54										FY 55									
										FY 56										FY 57									
										FY 58										FY 59									
										FY 60										FY 61									
										FY 62										FY 63									
										FY 64										FY 65									
										FY 66										FY 67									
										FY 68										FY 69									
										FY 70										FY 71									
										FY 72										FY 73									
										FY 74										FY 75									
										FY 76										FY 77									
										FY 78										FY 79									
										FY 80										FY 81									
										FY 82										FY 83									
										FY 84										FY 85									
										FY 86										FY 87									
										FY 88										FY 89									
										FY 90										FY 91									
										FY 92										FY 93									
										FY 94										FY 95									
										FY 96										FY 97									
										FY 98										FY 99									
										FY 00										FY 01									
										FY 02										FY 03									
										FY 04										FY 05									
										FY 06										FY 07									
										FY 08										FY 09									
										FY 10										FY 11									
										FY 12										FY 13									
										FY 14										FY 15									
										FY 16										FY 17									
										FY 18										FY 19									
										FY 20										FY 21									
										FY 22										FY 23									
										FY 24										FY 25									
										FY 26										FY 27									
										FY 28										FY 29									
										FY 30										FY 31									
										FY 32																			

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment										
P-1 ITEM NOMENCLATURE										
FORCE PROVIDER (M80200)										
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY		2	2	2	2	3	3	3		
COST (in millions)		10.7	11.9	11.7	11.8	23.6	23.6	23.2		
<p><b>DESCRIPTION:</b> Force Provider is the Army's bare-base life support system for our Force XXI power projection army. A fully engineered system, this deployable "tent city," provides high quality climate-controlled billeting, dining, shower, latrine, laundry, and morale welfare and recreation facilities and equipment in an air transportable, strategically deployable module capable of supporting 550 soldiers. The primary mission of Force Provider is to provide rest and refit for combat weary soldiers in world-wide deployments, in particular, in theater of operations with immature infrastructure. With Force Provider, combat units will experience higher rates of recovery from the stress of combat, increasing their rate of availability and readiness for combat missions. It does this in a safe, sanitary, high quality of life environment not available from any other Army system. Additionally, Force Provider provides critical logistics capability for Intermediate Staging Base (ISB) operations, theater reception, and redeployment support missions in combat theaters of operation. Force Provider is much more than an assembly program. Extensive and comprehensive systems engineering and integrated logistics support were accomplished to assure over 40 major items and several hundred secondary items are integrated into a completely deployable, largely self-sustaining package. In particular, engineering and integration of Force Provider's power generation and distribution; water and fuel storage and distribution; and wastewater storage with Force Provider's subsystems provide effective, efficient and affordable optimization of the total system which meets all critical user requirements. Fully containerized for rapid deployment, Force Provider is transportable by rail, sea, roadway, and C-130, C-141, C-17 or C-5A aircraft.</p> <p><b>JUSTIFICATION:</b> FY97 funding is required to procure two Force Provider modules toward meeting the Army Acquisition Objective (AAO) of 36 modules. Force Provider is a demonstrated "force multiplier"--returning soldiers to duty more rapidly, rested, with higher morale and combat ready. Desert Shield/Storm underscored the need for Force Provider in these critical combat support missions and motivated its development through an Army Chief of Staff initiative. One module deployed at Guantanamo Bay, Cuba, between August 1994 and February 1996 in a humanitarian relief support mission and six modules recently deployed as base camps to Bosnia/Herzegovina in Operation Joint Endeavor, are proving that the concept is sound, the system works, is supportable and required by our Force XXI army.</p>										

OPA Cost Analysis														A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON FORCE PROVIDER (M80200)				C. MANUFACTURER NAME Sierra Army Depot				D. DATE March 1996			
OPA Cost Elements		ID	CD	FY 94				FY 95				FY 96				FY 97													
				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost											
				\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$											
Hardware Major Item Components Secondary Item Components		A					8,246 (6,403) (1,843)	2	4,123,000	8,863 (5,211) (3,652)	2	4,431,500	9,075 (6,901) (2,174)	2	4,537,500														
Depot Module Assembly							1,463			1,582			1,591																
Engineering Support Government Contract							935 (935)			902 (595) (307)			819 (819)																
Testing							20			175			72																
ILS										310			72																
Quality Assurance										60			32																
TOTALS							10,664			11,892			11,661																

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										FORCE PROVIDER (M80200)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Hardware											
FY 95	Sierra Army Depot, Herlong, CA	Assembly	ATCOM	Mar-95	Dec-96	2	4,123,000	YES	NO		
FY 96	Sierra Army Depot, Herlong, CA	Assembly	SSCOM	Mar-96	Dec-97	2	4,431,500	YES	NO		
FY 97	Sierra Army Depot, Herlong, CA	Assembly	SSCOM	Mar-97	Dec-98	2	4,537,500	YES	NO		
<b>REMARKS:</b> This is a depot assembly program at Sierra Army Depot (SIAD), Herlong, CA. The award for assembly will be incremental through the fiscal year of funding. The cited date indicates when the majority of funds will be obligated.											





FY 96 / 97 BUDGET PRODUCTION SCHEDULE										FORCE PROVIDER (M80200)										DATE										March 1996									
P-1 ITEM NOMENCLATURE										Fiscal Year 99										Fiscal Year 00										L A T E R									
										Calendar Year 99										Calendar Year 00																			
										J F M A M J J A S O N D										J F M A M J J A S O N D																			
										C O N T										C O N T																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			
										M A R										M A R																			
										F F										F F																			
										J J										J J																			
										D E C										D E C																			
										O N T										O N T																			
										V C										V C																			
										E A N										E A N																			
										A A B										A A B																			
										R R										R R																			
										M A P										M A P																			
										A A R										A A R																			



BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY							March 1996
OTHER PROCUREMENT / Other Support Equipment							
P-1 ITEM NOMENCLATURE							
REFRIGERATION EQUIPMENT (MA5800)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY							
COST (in millions)		0.1	2.5	4.3		1.0	1.0

**DESCRIPTION:** This budget line represents Army tactical refrigeration equipment. It consists of refrigeration units including the 5,000 and 10,000 BTU electric motor driven (EMD), and diesel engine driven (DED) units and the 8' X 8' X 20' refrigerated container. These units are designed to fit into the 150 cu ft preformed refrigerated box, and the 600, 1200, 1800, and 4,000 cu ft prefabricated refrigeration boxes. This equipment is used to store a variety of perishable items including food, drugs, medical supplies, and temperature sensitive equipment such as batteries and photographic film.

**JUSTIFICATION:** The FY 97 program will be used to upgrade the Refrigerated Containers so the Army can meet its requirement to support the Perishable Subsistence Platoons and the Army Field Feeding System - Future. New containers will be purchased to replace the overaged ( 15 - 18 yrs old ) containers currently in the field. These new containers will match up with the new Refrigeration Units and new 10 KW Tactical Quiet Generators that will be fielded in FY 96.

OPA Cost Analysis		A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON REFRIGERATION EQUIPMENT (MA5800)				C. MANUFACTURER NAME		D. DATE March 1996				
OPA		FY 94				FY 95				FY 96				FY 97		
Cost Elements	ID CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$	\$	Each
Refrigerated Container (M919)	A				72									4,297	149	28,839
Refrigeration Unit, 10,000 BTU, DED (M849)	A							2,255	261	8,640						
Refrigeration Unit, 5,000 BTU, EMD (M858)	A							226	41	5,512						
TOTALS					72						2,481			4,297		

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE Refrigerated Container 8'X8'X20' (M919)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)		0.1		4.3		1.0	1.0	1.0
<p>DESCRIPTION: This item is a Military Standard 20 foot Refrigerated Container equipped with a 9,000 BTU (Government Furnished Equipment (GFE)) per hour electric motor driven refrigeration unit powered by a self-contained GFE 10 KW Diesel Engine Driven (DED) Generator Set. This refrigerated container provides controlled temperature storage for food (produce, dairy products, meats and liquids), medical supplies, drugs, and other temperature sensitive items such as batteries and photographic film.</p> <p>JUSTIFICATION: The FY 97 program will be used to upgrade the Refrigerated Containers so the Army can meet its requirement to support the Perishable Subsistence Platoons and the Army Field Feeding System - Future. New containers will be purchased to replace the overaged ( 15 - 18 yrs old ) containers currently used in the field. These new containers will match up with the new Refrigeration Units and new 10 KW Tactical Quiet Generators that will be fielded in FY 96.</p>								

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Refrigerated Container (M919)				C. MANUFACTURER NAME TBS		D. DATE March 1996	
OPA Cost Elements	ID CD	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	Qty Each	UnitCost \$	UnitCost \$
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each				
Hardware	A									4,092	149		27,463
Government Engineering					72					73			
Documentation										45			
First Article Test										87			
TOTALS					72					4,297			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
C. P-1 ITEM NOMENCLATURE										
Refrigerated Container (M919)										
Hardware										
FY 97	TBS	C/FP-Option	SSCOM	Feb-97	Feb-98	149	27,463	YES	NO	

REMARKS: The FY 97 program will be a new buy using an Invitation for Bid with an option.



BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OTHER PROCUREMENT / Other Support Equipment		Refrigeration Unit, 10,000 BTU DED (M849)							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY				261					
COST (in millions)				2.3					

DESCRIPTION: A self-contained, military specification unit consisting of a condensor and evaporation section, designed to fit into the wall opening of the 600, 1200, 1800, and 4000 cu ft pre-fabricated refrigerated boxes. This unit is self powered by a 12 volt, air cooled diesel engine with a refrigerant that will comply with EPA and DOD directive replacement of chlorofluorocarbons (CFC) R12 in all refrigeration equipment. It provides temperature controlled storage for items such as food, drugs, and medical supplies, batteries, and photographic film.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Refrigeration Unit, 10,000 BTU, DED (M849)				C. MANUFACTURER NAME KECO, Inc. Florence, KY		D. DATE March 1996				
OPA Cost Elements	ID	CD	FY 94			FY 95			FY 96			FY 97					
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost			
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$			
Hardware																	
			</														



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware										
FY 92	KECO Inc., Florence, KY	C/FP-REQ3(1)	ATCOM	Feb-94	Aug-96	5	8,642	YES	NO	
FY 93	KECO Inc., Florence, KY	C/FP-REQ3(1)	ATCOM	Feb-94	Aug-96	82	8,642	YES	NO	
FY 96	KECO Inc., Florence, KY	C/FP-REQ3(1)	SSCOM	Apr-96	Nov-96	261	8,640	YES	NO	
REMARKS: FY 92/93 programs were funded under Items Less Than \$2.0M (CSS-EQ).										



BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE Refrigeration Unit, 5,000 BTU, EMD (M858)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)			0.2					
<p>DESCRIPTION: This refrigeration unit is a self-contained package unit consisting of a condensor and evaporator sections designed to fit into the wall opening of the 150 cu ft pre-formed refrigerated boxes. This unit requires power from a military generator or local electrical power operate. This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film.</p>								



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware										
FY 92	KECO Inc., Florence, KY	C/FP-REQ3(1)	ATCOM	Feb-94	Jul-96	8	5,376	YES	NO	
FY 93	KECO Inc., Florence, KY	C/FP-REQ3(1)	ATCOM	Feb-94	Jul-96	3	5,376	YES	NO	
FY 96	KECO Inc., Florence, KY	C/FP-REQ3(1)	SSCOM	Apr-96	Dec-96	41	5,390	YES	NO	
REMARKS: FY 92/93 programs were funded under Items Less Than \$2.0M (CSS-EQ).										



BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	0	0	0	0	0	0		0	
COST (in millions)		4.6	2.2	2.7	2.1	5.9	6.5	7.9			
<p><b>DESCRIPTION:</b> These programs cover combat and engineer support equipment which have annual procurements of less than \$2 million. All procurements made with these funds are designated to support vital high priority requirements. The types of items procured on this budget line include assault boats, survey equipment, non-breathable air compressors, hygiene and food sanitation equipment. The systems and equipment procured on this line directly support the combat readiness and quality of life of every soldier in the Army, every day.</p> <p><b>JUSTIFICATION:</b> These programs fill critical Army shortages and replace overaged, non-supportable and non-replaceable assets. The type of equipment procured on this budget line is subject to high wash out rates due to its extensive use and low unit price. This frequently makes these assets uneconomically repairable. This equipment affects the operational capability of units in the field for designated missions and training requirements. These assets improve units combat capability.</p> <ol style="list-style-type: none"> <li><b>Food Sanitation Center (M665):</b> This equipment provides the capability to properly sanitize pots, pans, preparation/serving utensils, and dinnerware used in the preparation of nutritious hot meals. The FY 97 program supports Army Fielding Feeding - Future and Army Field Medical Units.</li> <li><b>Portable Bath/12 Head Shower (M824):</b> This is a 12 head shower system used to provide personal hygiene for soldiers in the field. The FY 97 program supports replacement of the old 9 head shower. The replacing shower meets all EPA waste water handling requirements and fully supports current Army mission requirements.</li> <li><b>Inflatable Boat (M284):</b> This is a fifteen person, inflatable assault boat. It is required for infiltration/exfiltration missions, river crossings, beach landings, beach reconnaissance, general utility work, bridge and harbor construction and drug enforcement/interdiction missions. The FY 97 program supports replacement of the existing boat. Current inventories exceed their useful life and pose a potential safety hazard.</li> <li><b>Light Set, Trailer Mounted (M721):</b> This floodlight provides portable lighting to support a wide variety of engineer and maintenance related night time missions including field maintenance and construction, air field support and security operations. The FY 97 program supports a partial replacement of existing light set that no longer conform to Army mission requirements, are overaged, and largely unsupportable.</li> <li><b>Fire Truck, Multipurpose, Tactical (M158):</b> This truck provides fire fighting and fire suppression capability protecting real property, equipment and human life. The truck supports (TOE) Army units and TDA requirements. It is used primarily to fight aircraft crash and brush fires. The existing trucks are past their useful life and in poor operating condition. The FY 97 program begins to replace these overage trucks.</li> </ol>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)			C. MANUFACTURER NAME			D. DATE March 1998		
OPA		FY 94			FY 95			FY 96			FY 97		
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Compressor, 5 cfm (M095)	A				13	5	2						
Boat, Inflatable (M284)	A				1525	175	9						
Food Sanitation Center (M665)	A				206	16	13	1693	134	13	876	65	13
Light Set, Trailer Mounted (M721)	A				1926	130	15				335	22	15
Portable Bath Units/12 Head Shower (M824)	A							459	23	20	657	33	20
Truck, Firefighting, Structural (M941)	A				235	1	235						
Survey Set, Target (R174)	A				453	288	2						
Relocatable Building (No SSN)	A				109	1	109						
Compressor, Diving (M838) (ULO)	A				174								
Truck, Firefighting, Multi-purpose (M158)	A										457	2	229
Boat, Inflatable, 15 Person (M238)	A										363	33	11
<b>TOTAL</b>					<b>4641</b>			<b>2152</b>			<b>2688</b>		





OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON INLAND PETROLEUM DISTRIBUTION SYSTEM (MA5120)				C. MANUFACTURER NAME		D. DATE March 1996		
OPA Cost Elements	ID	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each						
Items <\$2.0Million															
Bulk Fuel Tank Assembly					583					455			150		
Government Engineering					2,103	46	45,717		14	621		44,357	914	20	45,700
Equitable Adjustment Claim					248				3						
					371										
TOTALS		0			3,305				1,079				1,064		

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)			0.6	0.5	0.2				
<p><b>DESCRIPTION:</b> The U.S. Army has the mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations. The Inland Petroleum and Distribution System (IPDS) is a rapid-deployment, general support, bulk fuel storage and pipeline system. It is made up of Tactical Petroleum Terminals (Fuel Units and Pipeline Connection Assemblies), Pipeline Pump Stations, Pipeline Sets and Special Purpose Equipment. The system is modular in design and can be tailored for specific locations and operations. The IPDS provides bulk fuels support to military forces when deployed world wide. As Operational Projects Stocks (OPS), IPDS supports the unified commands' world wide contingency plans when executed. The system also includes facilities, software, training and planning documentation.</p> <p><b>JUSTIFICATION:</b> The FY 97 program with annual procurements of less than \$2.0 million supports the reconfiguration of the IPDS deployed to Southwest Asia (Desert Shield/Storm), supports ongoing IPDS requirements for the Army Strategic Mobility Plan, and other future contingencies. In 1990 and 1991, significant amounts of IPDS materiel were deployed and used to support U.S. and Coalition Forces in the liberation of Kuwait during Operation Desert Shield/Storm. Two IPDS systems were deployed and placed on station in the theater. In 1993 IPDS was installed and operated from the port of Mogadishu to the U.S. Military fuel storage area at the Somalia National Airport in support of Operation Restore Hope. All items in the FY97 program are needed to meet established IPDS requirements. The Critical Gap Crossings to be procured will be a new design that significantly reduces installation time as compared to the existing inventory.</p>									

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Items <\$2.0 Million (MA5120)				C. MANUFACTURER NAME				D. DATE March 1996	
OPA Cost Elements	ID	FY 94			FY 95			FY 96			FY 97				
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$		
Tool Kit, Pipe Cutting					583	9	64,778								
Critical Gap Crossing								455	28	16,250		150		10	15,000
Floodlight Set															
TOTALS					583			455				150			

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)			2.1	0.1	1.0				
<p><b>DESCRIPTION:</b> The U.S. Army has the mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations. The Inland Petroleum and Distribution System (IPDS) is a rapid-deployment, general support, bulk fuel storage and pipeline system. It is made up of Tactical Petroleum Terminals (Fuel Units and Pipeline Connection Assemblies), Pipeline Pump Stations, Pipeline Sets and Special Purpose Equipment. The Bulk Fuel Tank Assembly (BFTA) is a major component of a Tactical Petroleum Terminal. The BFTA is designed to store petroleum based fuels and is used primarily when large capacity quick storage facilities are needed. The BFTA is self supporting, requires minimum ground preparation and is made from a woven nylon cloth coated on both sides with an elastomer. The system is modular in design and can be tailored for specific locations and operations. The IPDS provides bulk fuels support to military forces when deployed world wide. As Operational Projects Stocks (OPS), IPDS supports the unified commands' world wide contingency plans when executed. The system also includes facilities, software, training and planning documentation.</p> <p><b>JUSTIFICATION:</b> The Bulk Fuel Tank Assemblies (BFTA) are being procured based on the shelf life and corresponding wash out of the existing tanks. BFTAs are also the most likely components to be damaged during exercises such as the Joint Logistics Over the Shore (JLOTS) or during deployment. Thirty-six BFTAs were depleted during Desert Storm and Operation Restore Hope.</p>									

OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Bulk Fuel Tank Assembly (MA5120)				C. MANUFACTURER NAME Reliance Aero				D. DATE March 1996			
OPA				FY 94				FY 95				FY 96				FY 97			
Cost Elements				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost				
				\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$				
Hardware							2,103	46	45,717	621	14	44,357	914	20	45,717				
TOTALS							2,103			621			914						

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
Bulk Fuel Tank Assembly (MA5120)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware										
FY 95	Reliance Aeroproducts	CFF-REQ-5(1)	ATCOM	Sep-95	Nov-96	46	45,717	YES	NO	
FY 96	Reliance Aeroproducts	CFF-REQ-5(2)	ATCOM	Apr-96	Apr-97	14	44,357	YES	NO	
FY 97	Reliance Aeroproducts	CFF-REQ-5(3)	ATCOM	May-97	Jun-97	20	45,717	YES	NO	
REMARKS:										







**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY							March 1996
OTHER PROCUREMENT / Other Support Equipment							
P-1 ITEM NOMENCLATURE							
ITEMS LESS THAN \$2.0M (POL) (ML5330)							
QUANTITY	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
COST (in millions)		8.3	4.6	5.3	2.3	3.1	3.2
							3.1
<p><b>DESCRIPTION:</b> These programs include wide and diverse variety of Petroleum, Oil and Lubricants (POL) equipment which have annual procurement programs of less than \$2 million. These programs support the Army's mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land based forces in a theater of operations.</p> <p><b>JUSTIFICATION:</b> Equipment acquired under the FY97 program is required to fill existing shortages, replace overage and uneconomically repairable assets, and provide state-of-the-art equipment. This equipment is low unit cost, high usage assets resulting in high washouts and losses. New technology improves combat capability and, as a result, reduces personnel requirements. The FY97 program is required to offset shortfalls and scheduled washouts requirements during that period.</p> <p>a. The 350 Gallon Per Minute (GPM) Pump, M612, is a multi-purpose pump with its primary application to the Hose-line Outfit. It supports the Army's primary means of distributing and issuing petroleum to combat forces under tactical conditions. It is a war stopper if not available. It will be at 67 percent of the authorized quantity by the end of FY96. Continued FY97 procurement is required to fill shortages as well as replace old Gasoline Engine Driven (GED) models currently fielded.</p> <p>b. The 50 Gallon Per Minute Pump, M638, is an auxiliary/utility pump required in all types of Army units for multiple usage. This includes drawing fuel from storage tanks and from collapsible or 42-gallon metal drums. It also has general use in unit, battalion, and higher support units. The FY97 procurement of DED Models is a continuous effort to replace GED Models which have exceeded age life (23-28 years old).</p> <p>c. The Lubricating &amp; Service Unit, M641, is used to lubricate and service heavy construction equipment, motor vehicles, armored vehicles, and any other type of equipment. Based on its link to the overall mobility of today's Army, it is a war stopper if not available. Of the currently fielded units, 60 percent are over 20 years old, and have exceeded the useful life expectancy. The FY97 planned procurement is imperative for continued support of all ground combat systems.</p> <p>d. The 10,000 Gallon Tank, M649, requires cyclic replacement due to its service life when filled with fuel. Continued FY97 assembly is required to meet shortages to Modified Table of Equipment (MTOE) requirements incidental to the fielded assets which will have exceeded their useful service/shelf life (which is within 12 to 18 months of use). The tank is a separately authorized component of the Fuel System Supply Point (FSSP) and also serves as an auxiliary tank for special operations. Without these tanks, there can be no storage and/or distribution of fuel. The impact would be severe to the extent on non-mission capability.</p> <p>e. The Filter Separator, 350 GPM, M940, has multiple uses with its main application to the FSSP. Other uses include support to the aviation refueling systems and Refueling on the Move. It supports the Army's primary means of distributing and issuing usable petroleum to combat forces under tactical conditions by filtering sediment and water from fuel. It is a war stopper if not available. Most of the filter separators (80 percent) now fielded are over-aged, ranging from 10 to 15 years old. Continued FY97 procurement is required to replace the old, over-aged equipment.</p> <p>f. The Tank Unit Liquid Dispensing (TULD), R380, will only be at 61 percent of its authorized quantity by the end of FY96. Continued FY97 assembly is required to overcome notable deficits in fielded units. Without the TULD, refueling capability is greatly hindered as it provides the user the capability to transport and refuel 500-600 gallons of fuel (most often a second type fuel). It carries critical requirements with shortages reported worldwide.</p>							



BUDGET ITEM JUSTIFICATION SHEET							DATE
P-1 ITEM NOMENCLATURE							March 1996
APPROPRIATION / BUDGET ACTIVITY							ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)
OTHER PROCUREMENT / Other Support Equipment							
FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	
FY 2001							
QUANTITY							
COST (in millions)							5.2

**DESCRIPTION:** The equipment procured with these programs supports the Army mission of providing potable water to soldiers in their field of operations. They provide life and mission sustaining water to the front line and remote units in tactical environments. In addition to consumption, these items support personal hygiene, emergency medical conditions, equipment maintenance, and nuclear, biological and chemical decontamination. They include a wide variety of low unit cost, high usage items such as water tanks, pumps, water purification, storage and distribution systems. Each have an annual procurement of under \$2 million.

**JUSTIFICATION:** Lack of potable water adversely impacts U.S. Forces operations in arid environments. Equipment acquired under the FY97 programs is required to fill existing shortages, replace overage and uneconomically repairable assets, and procure state-of-the-art equipment. This equipment is normally low unit cost, high usage assets which result in high washout and losses. New technology improves combat capability and the individual soldier's quality of life. The FY 97 program is required to satisfy specific shortfalls and requirements that occur during these periods.

a. The 50K Gallon Fabric Tanks, M120 are used to store potable water when large capacity quick storage facilities are needed. It is used primarily in quick response deployment operations. It is used as a component of the 800K and 1M gallon Water Storage Distribution Systems. The system will be at 75% authorized capability at the end of FY96. FY97 procurement will be used to fill MTOE shortages as well as the replacement of washouts and losses.

b. The 20,000 Gallon Fabric Tanks, M124 are used to store potable water when large capacity quick storage facilities are needed. It is used primarily in quick response deployment operations. It is used with the 20K, 40K and 300K Water Storage Distribution Systems and with the Tactical Water Distribution System. These systems will be at 65% authorized capability with the FY97 procurement.

c. The 500 Gallon Fabric Drums, M126 are used to transport water to ground troops in isolated areas and for temporary storage. It is used as a component of the Forward Area Water Point Supply System. Six each are required per Forward Area Water Point Supply System. FY97 procurement will bring the systems to 60% of the authorized capability.

d. The 5000 Gallon Fabric Tank, M141 are used to transport water to ground troops in isolated areas. FY97 procurement will replace washouts/losses and maintain an 80% authorized capability.

e. The 125 GPM Pump, M160 is used to distribute potable water to the troops. It is used as a component to the Tactical Water Distribution System, Water Storage Distribution System and the Forward Area Water Point Supply System. FY97 procurement quantity will replace washouts/losses and maintain a 80% authorized capability.

**NOTE:** 125 GPM GED pumps are being replaced by the DED pumps. One Half of the on-hand inventory includes GED.

f. The 3000 Fabric Tank, M660 is semi-trailer mounted fabric tank that transports 3000 gallons of drinking water over the highway or unimproved roads while secured to M878, M871, or M127A2C semi-trailer. FY97 procurement will replace washouts/losses and maintain a 70% authorized capability.

OPA Cost Analysis		A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)			C. MANUFACTURER NAME			D. DATE March 1996	
ID	CD	FY 94			FY 95			FY 96			FY 97	
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each
Pump Unit, 350 gpm (M115)	A				470	37	12,703					
Tank, Fabric, 50,000 gal (M120)	A				788	79	9,975	671	62	10,823	642	61
Tank, Fabric, 20,000 gal (M124)	A				247	50	4,940	410	80	5,125	401	80
Drum, Fabric, 500 gal (M126)	A				1,174	554	2,119	990	429	2,308	1,008	390
Tank, Fabric, 5,000 gal (M141)	A										551	78
Pump Unit, 125 gpm (M160)	A				1,290	495	2,606	249	95	2,621	217	84
Tank, Fabric, 3,000 gal (M660)	A										151	24
<b>TOTAL</b>					<b>3,969</b>			<b>2,320</b>			<b>2,970</b>	

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		COMBAT SUPPORT MEDICAL (MN1000)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	0	0	0	0	0	0		0	
COST (in millions)		19.2	13.8	15.9	15.9	43.1	50.5	46.8			
<p><b>DESCRIPTION:</b> The Combat Support Medical (MN1000) line resources the incremental modernization and sustainment of Deployable Medical Systems (DEPMEDS) for the Army Medical Department (AMEDD) Table of Organizational Equipment (TOE) combat casualty care structure. The program supports medical force structure throughout the continuum of the wartime theater of operations as well as Operations Other Than War. Materiel support is provided through utilization of DoD standardized medical equipment modules.</p> <p><b>JUSTIFICATION:</b> Resourcing for Combat Support Medical funds the modernization of Force Package 1 direct patient care equipment requirements as well as non-medical hospital support systems. Acquisition of technological and clinically advanced equipment allows combat casualty care to maintain medical readiness and a clinical standard-of-care applicable to civilian medical practice. Program resources will also ensure the implementation of hospital redesign and restructure under the Army Force XXI initiatives.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON COMBAT SUPPORT MEDICAL (MN1000)				C. MANUFACTURER NAME		D. DATE March 1996	
ID	CD	FY 94			FY 95			FY 96			FY 97		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS)					4627								
FIELD MEDICAL EQUIPMENT					14582			3131			9097		
TOTAL					19209			10699			6754		
								13830			15851		
NOTE: Changes have been made in the SSNs due to decision to discontinue procurement of the Field Medical Oxygen Generating System and the subsequent reprioritization of requirements.													



BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) (MX0003)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	0	0	0	0	0	0		0	
COST (in millions)		4.6	3.1	9.1	6.7	18.9	18.8	17.2			
<p><b>DESCRIPTION:</b> Deployable Medical Systems (DEPMEDS) provides the funding for major non-medical components to sustain the clinically functional, mobile, modular design of field medical health care in support of Force Projection Army requirements. Hospital designs are available in three configurations; Combat Support (CSH), Field and General.</p> <p><b>JUSTIFICATION:</b> FY 97 budget request supports sustainment requirements and incremental enhancements and modernization of non-medical equipment to unit capabilities based upon Medical Reengineering Initiative (MRI) and Force XXI initiatives. Acquisition of specific equipment requirements supporting the DEPMEDS hospital structure are displayed on the exhibits. FY 97 request supports the implementation of Army Medical Department hospital redesign, Army Force XXI Power Projection concepts through clinical, automation and non-medical equipment acquisition to modernize the tentage and International Standards Organization (ISO) shelter systems.</p>											



BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		FIELD MEDICAL EQUIPMENT (MB1100)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	0	0	0	0	0	0		0	
COST (in millions)		14.6	10.7	6.8	9.2	24.2	31.7	29.6			

DESCRIPTION: Field Medical Equipment (MB1100) provides funding for the acquisition of major medical equipment items required to equip all echelons of combat casualty care units to include Forward Surgical Teams (FST's), Battalion Aid Stations, Evacuation Battalions, and Area Medical Laboratories (AML). Additionally, this line resources the modernization of obsolete/non-reparable items and implementation of combat casualty care redesign in support of Army Force XXI directives.

JUSTIFICATION:

The budget request supports DEPMEDS equipped hospital sets with the necessary medical equipment to correct insufficient and inadequate medical equipment in the Table of Organizational Equipment hospital structure. This medical equipment enhances the medical readiness position of the field units allowing them to perform their wartime missions. The request supports the sustainment and modernization of (1) fielded DEPMEDS equipped hospital sets in Force Package 1; (2) major medical equipment for non-hospital units to implement Medical Reengineering Initiative (MRI) and Force XXI initiatives.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON FIELD MEDICAL EQUIPMENT (MB1100)				C. MANUFACTURER NAME				D. DATE March 1996	
ID CD	OPA Cost Elements	FY 94			FY 95			FY 96			FY 97				
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
	Liquid Oxygen Distribution System (Tanks)														
	Sterilizers				767	2	384								
	Dental X-Ray				1986	27	74	1986	28	71	1973	27			73
	Anesthesia Apparatus				1206	89	14	500	37	14	200	14			14
	Army Medical Laboratory Equipment							745	75	10	646	65			10
	Ventilators				2500	540	5	1000							
	Defibrillators				1959	210	9	1073	115	9					
	ECG Monitors				1828	226	8	1992	249	8	1978	240			8
	Bacterial Incubator				30	5	6								
	Compressor Dehydrator				19	1	19								
	Operating Room Tables				1487	104	14	1500	105	14					
	Ultrasound							434	6	72					
	Vital Signs Monitor							94	7	13					
	Blood Plasma Freezer							125	25	5					
	Lens Surfacing Generator				1200	10	120								
	Army Aeromed Technical Assistance							300							
	Central Compressor				1600	32	50	950	19	50	1957	38			52
	Aerosol Generator, Ultra Low Volume Elec														
	<b>TOTAL</b>				<b>14582</b>			<b>10699</b>			<b>6754</b>				

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OTHER PROCUREMENT / Other Support Equipment		SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP (M61500))							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	52	31	31	31	192	191	0
COST (in millions)		0.0	2.8	1.7	1.7	1.7	10.0	10.0	0.0

**DESCRIPTION:** The Shop Equipment, Contact Maintenance Vehicle (CMV), Truck Mounted, High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) Heavy Variant (HHV) (1097) is for general use and will provide improved cross-country mobile maintenance support to maneuver elements. The current CMVs, the gasoline-engine M887 Dodge Truck and Commercial Utility Cargo Vehicle (CUCV) CMV, are unable to traverse the terrain or maintain sufficient cross-country speed to keep up with support equipment while carrying tool and repair parts. The CMV will deploy to the site of disabled equipment to make repairs of all weapons systems and military equipment. The CMV will operate throughout the battlefield to include the Division Support Area (DSA), the Brigade Support Area (BSA), and the Unit Maintenance Collection Point (UMCP). The CMV will operate as far forward as behind the first terrain feature to the rear of the Forward Line of Own Troops (FLOT). Contact Maintenance teams using the CMV will perform repairs to equipment on-site in hours of daylight and darkness.

**JUSTIFICATION:** Readiness posture is being affected by the shortage of Contact Maintenance Shops to fill unit requirements throughout the Army. The Shop Equipment, Contact Maintenance is employed at the intermediate levels of maintenance to provide the capability of performing on-site repairs to disabled equipment. Non-availability of these shops degrades unit mission capability. The need to replace uneconomically repairable, overaged shops (1500) mounted on the M880 series truck chassis for which spare and repair parts are no longer available, continues to exist. In addition, the 1986 CUCV version CMV will not be supported after 1997. This is in line with the "Purefleeting" concept for Light Maintenance Vehicle. Future procurement of the CMV will be mounted on the HMMWV chassis. This will assist in purifying the vehicular fleet and reduce shortage requirements of spare/repair parts and fuel. The FY97 CMV program will permit the Army to continue to support the highest priority Force Package 1 units in their tactical maintenance mission. This version also adds to the overall ability of the system to transverse over all types of terrain. The FY 97 program continues support for an AAO of approximately 2,000.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP (M61500))			C. MANUFACTURER NAME Rock Island Ars			D. DATE March 1996		
OPA Cost Elements		FY 94			FY 95			FY 96			FY 97		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware	A				2555	52	49	1551	31	50	1514	31	49
2. Engineering Support					232			148			148		
3. Quality Assurance					25			24			25		
TOTAL					2812			1723			1687		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP (M61500))										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. Hardware										
FY 95	Rock Island Arsenal, RI, IL	SS/FP	ACALA	Sep-95	Mar-96	52	49	Yes	No	
FY 96	Rock Island Arsenal, RI, IL	SS/FP	ACALA	Mar-96	Aug-96	31	50	Yes	No	
FY 97	Rock Island Arsenal, RI, IL	SS/FP	ACALA	Nov-96	May-97	31	49	Yes	No	
REMARKS:										







**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
										March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Other Support Equipment		ITEMS LESS THAN \$2.0M (MAINT EO) (ML5345)								
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY	0	0	0	0	0	0	0	0		0
COST (in millions)		2.0	1.4	1.3	1.2	4.9	5.6	6.5		

**DESCRIPTION:** Provides for procurement of major shop equipment, shop sets, weapon support items, and explosive ordnance disposal (EOD) equipment. Major shop equipment shop sets have multi-applications for Army maintenance organizations tasked with maintaining and repairing combat and tactical weapon systems. This equipment for initial issue shortages or to replace overaged and uneconomically repairable assets. EOD equipment is used by EOD personnel to render safe unexploded ordnance and improvised devices throughout the world. This equipment provides the capability to examine, identify, and render safe ordnance effectively and safely.

**JUSTIFICATION:** Required to procure tool sets and shop equipment to support current and increasing requirements of maintenance and weapons support units. These requirements include interchange, readiness fixing, and replacement of uneconomically repairable/unsupportable assets. The EOD equipment is urgently needed to fill unit requirements throughout the active Army, National Guard, and Army Reserve Units for rendering safe unexploded ordnance and improvised explosive devices. The EOD equipment will increase operational capabilities of EOD units as well as enhance safety of EOD personnel.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)				C. MANUFACTURER NAME Various		D. DATE March 1996	
OPA			FY 94		FY 95		FY 96		FY 97					
Cost Elements			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Demolition Equip Set, Expl Elec & Non Elec	F001	A				69	39	2	33	18	2	38	20	2
2. Torch Outfit, Cutting & Welding Org Maint Set 5	F065	A							4	5	1	73	91	1
3. Shop Set, Spare Part Storage Field Maint, Set 1	F079	A				237	62	4	371	94	4	407	100	4
4. MX22 Remote Firing Device	G008	A							562	35	16	628	36	17
5. Shop Equip, Canvas Glass Shop, Shelter MTD	G311	A							153	2	77	158	2	79
6. Shop Set, Welding Field Maint, PCS, Set 8	G341	A				22	2	11						
7. Service Kit, Power Plant Operator O6HF	G651	A				158	1	158						
8. Shop Equip, Radiator Test & Repair, FM	G715	A							165	14	12			
9. Tool Kit, Suppl Field Maint (EOD)	G784	A										35	6	6
10. Brake Machine (PEND)		A				84	8	11						
11. Lathe, Engine	S053	A				401	20	20						
12. Dearmer, MK2	F044	A				3	21							
13. Radiographic Tool Set	6037	A				170	30	6	27	4	7			
14. Hook & Line Set	G076	A							30	30	1			
15. Saw, Power Hawk	S101	A							60	5	12			
16. Tool Outfit Hydraulic Repair		A				809								
TOTAL						1953			1405			1339		

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Other Support Equipment		ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		53	57	0	50	61	0	0
COST (in millions)		7.1	6.9	0.0	6.5	7.4	0.0	0.0

DESCRIPTION: The Vibratory Self Propelled Roller is a commercial Non-Developmental Item (NDI) with the capability of exchanging smooth drum vibratory compaction to tamping foot compaction functions within a single base self-propelled unit. This will be accomplished by applying bolt-on padfoot segments to the existing smooth drum surface. There will be two types procured to replace existing equipment which has been directed by DA for turn-in due to overage, high O & S cost and supportability problems due to non-availability of repair parts. A heavy roller replaces the standard size currently in the inventory. A smaller "light" version replaces towed compaction equipment in light and airborne units. Roller will be capable of all modes of transportation to include airdrop and helicopter transport for airborne/airmobile units.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)				C. MANUFACTURER NAME TBS		D. DATE March 1996			
ID	OPA Cost Elements	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each						
A	HARDWARE			5942	53	112	6443	55	117						
	LOGISTIC SUPPORT			541											
	TESTING - CONTRACTOR PQT			115											
	TESTING - GOVT PQT			200											
	SPECIAL TOOLS			53			59								
	CONTRACTOR TEST SUPPORT			40											
	ENGINEERING CHANGE ORDER			56			8								
	ENGINEERING SUPPORT			182			309								
	REFURBISHMENT						74								
	TOTAL			7129			6893								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY 95	TO BE SELECTED	C/FP- REQ 5 (1)	TACOM	May-96	Jul-97	53	112	YES	NO	
FY 96	TO BE SELECTED	C/FP REQ 5 (2)	TACOM	May-96	Oct-97	55	117	YES	NO	
REMARKS:										







**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
---------------------------------	--	--	--	--	--	--	--	--	--	------	------------

APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		HYDRAULIC EXCAVATOR (X01500)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	0	25	11	19	18	0			
COST (in millions)		0.0	0.0	6.3	2.9	5.4	5.1	0.0			

DESCRIPTION: The Hydraulic Excavator (HYEX) is a commercial non-developmental item of construction equipment. The HYEX is a track mounted, hydraulic controlled, excavating system with a quick disconnect coupler system which allows the excavator to use a variety of different construction attachments. There will be two types procured. Type I will be equipped for use in general digging, trenching, loading, and lifting operations, and Type II will be equipped with a rock drill and rock bucket attachments for use in quarry operations.

JUSTIFICATION: FY 97 funds begins acquisition of Force Package 1 requirements. A continuing need exists for excavation capability in engineer units. Track mounted HYEX replaces four obsolete, overaged, and unsupportable pieces of excavating equipment; 12.5 ton cable operated crane, ditching machine, pneumatic rock drill, and 750 cfm air compressor. Since the acquisition of the 12 1/2 ton excavating cranes in 1967-68, 341 of the original purchase of 424 have been washed out of the system. DA has directed the immediate retirement of the remaining 83 excavating cranes, ditching machines, pneumatic rock drills, and 750 cfm air compressors due to lack of repair parts and high operating and support costs.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON HYDRAULIC EXCAVATOR (X01500)			C. MANUFACTURER NAME TBS			D. DATE March 1996		
OPA Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE	A										5309	25	212
LOGISTIC SUPPORT											364		
CONTRACTOR ASSISTANCE											30		
TESTING											138		
GOVERNMENT ENGINEERING											309		
REFURBISHMENT											25		
ECO											75		
TOTAL											6250		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
HYDRAULIC EXCAVATOR (X01500)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY 97	TO BE SELECTED	C/FP-REQ-5	TACOM	Mar-97	Aug-98	25	212	NO		Mar-96
REMARKS:										



FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DATE										March 1996																																							
COST ELEMENTS										HYDRAULIC EXCAVATOR (X01500)										Fiscal Year 98										Fiscal Year 99										L A T E R																													
										PROC QTY Each										ACCEP. PRIOR TO 1 OCT 1 OCT										BAL DUE AS OF 1 OCT										Calendar Year 98										Calendar Year 99																			
M F R										S E R V										J F M A M J J A S O N D										J F M A M J J A S O N D										J F M A M J J A S O N D																													
1 97										A 25										0										25																																							
																																																		</																			

**THIS PAGE IS INTENTIONALLY BLANK**



BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06105)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	16	20	0	23	21	16			
COST (in millions)		0.0	9.6	7.7	0.0	9.6	9.4	7.5			

  

**DESCRIPTION:** The Deployable Universal Combat Earth Mover (DEUCE) is a high-speed, high mobility, earth moving system capable of conducting, clearing, leveling, and excavating operations in support of mobility, countermobility, survivability, and sustainment of engineering missions in Light Divisions and Airborne Units.

  

**JUSTIFICATION:** FY 97 funds continue acquisition of Force 1 requirements. The DEUCE will increase war fighting capabilities of light engineer units to support light divisions. Engineers as part of the combined arms team need a lightweight earth moving capability that does not require a prime mover and trailer for operational and tactical movement in the battlefield and is strategically deployable by air. The DEUCE must travel rapidly between job sites, travel across paved airfield and highways without damaging the surfaces, and be capable of low velocity air drop and roll-on/roll-off from C-130 and C-17 aircraft.



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06105)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES WIA
FY 96	CATERPILLAR MINNEAPOLIS, MN	C/FFP OPTION	TACOM	Jun-96	Feb-97	17	499	YES	NO	
FY 97	CATERPILLAR MINNEAPOLIS, MN	C/FFP OPTION	TACOM	Feb-97	Oct-97	21	360	YES	NO	
REMARKS: FY 96 and FY 97 are options to RDTE contract awarded in July 95.										







BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY		0	6	21	19	39	28	17		
COST (in millions)		0.0	1.9	6.1	6.1	12.0	9.0	5.5		

  

**DESCRIPTION:** This is a commercial all terrain crane, pneumatic tired, diesel engine driven, with fully revolving superstructure and cab, and hydraulically powered telescoping boom. It shall be capable of operating with a hydraulic clamshell & grapple; pile driver and concrete bucket. It will be used to perform lifting, lowering, loading, and excavation; handling general supplies, construction materials and bridging; to support maintenance, collection and classification points, rehabilitation of maintenance routes of communication, resupply points and logistic support facilities.

  

**JUSTIFICATION:** FY 97 funds continues acquisition of Force Package 1 requirements. The All Terrain Crane (ATEC) will replace 3 existing coverage lines of equipment: 20 ton truck , 25 ton truck mounted and 20 ton rough terrain cranes that include eight different makes and models. The cranes are 17 - 28 years old. This existing crane fleet has reported low operational readiness rates and incurs significant O & S costs to maintain because of its age. Procurement of the ATEC will provide improved readiness, state-of-art technology, safety, and will blend on and off road mobility capability into one vehicle. ATEC's will also be used for peacetime disaster relief.

OPA Cost Analysis			A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)			C. MANUFACTURER NAME TBS			D. DATE March 1996		
OPA Cost Elements	ID CD		FY 94			FY 95			FY 96			FY 97		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE	A								1524	6	254	5546	21	264
LOGISTICS SUPPORT									215					
CONTRACTOR ASSISTANCE												21		
TESTING									42			154		
GOVERNMENT ENGR									133			276		
ECO									11			45		
REFURBISH TEST VEHICLE												100		
TOTAL									1925			6142		



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
FY 96	TO BE SELECTED	C/FP-REQ 5 (1)	TACOM	Aug-96	Dec-97	6	254	YES	NO		
FY 97	TO BE SELECTED	C/FP-REQ 5 (2)	TACOM	Jan-97	Jan-98	21	264	YES	NO		
REMARKS:											





**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT /Other Support Equipment

ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	0	0	0	0	0
COST (in millions)		2.7	1.9	0.4	0.9	0.8	3.3	1.7

**DESCRIPTION:** This program covers various types of Construction Equipment (CE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).

**JUSTIFICATION:** This equipment is required so that combat engineering units will be able to build and maintain roads and facilities to support the tactical mission. Construction equipment is required to support tactical wheeled vehicles and combat equipment in the forward deployment zone by constructing maintenance, storage facilities, and roads. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY 97 procurement is for the R071 Soil Density/Moisture Tester, identified as a priority acquisition by the US Army Engineer School (USAES), required to replace overaged equipment that support Engineer Construction Units. The Soil Density/Moisture Tester will be utilized by Engineer Construction units to measure the density and moisture levels in soil and asphalt samples critical to road building.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)				C. MANUFACTURER NAME		D. DATE March 1998			
ID	CD	OPA Cost Elements	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
			TotalCost \$000	UnitCost \$000	TotalCost \$000	UnitCost \$000	TotalCost \$000	UnitCost \$000	TotalCost \$000	UnitCost \$000						
		HOT OIL HEATER (M087)			23	1	23									
		STEEL WH ROLLER (R035)			1861	28	66	1692	15	113						
		TOWED ROLLER (R034)						227	11	21						
		T-3 DOZER (M051)			169	2	85									
		SOIL DENSITY/MOISTURE (R071)									382	76				5
		ASPHALT MELTER (M082)			120											
		CRUSHING/SCREEN M070			491											
		ASPHALT MIX PLANT (M081)			80											
		TOTAL			2744						1919			382		

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		PUSHER TUG, SMALL (M44500)									

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	1	2	2	0	0	0
COST (in millions)		0.0	3.5	6.9	6.8	0.0	0.0	0.0

DESCRIPTION: The Pusher Tug will be a steel hull craft approximately 60 feet in length with a maximum draft of 8 feet when fully loaded and will be capable of operating in Sea State 3. It will be capable of reaching a minimum of 10 knots sustained speed when fully loaded, no tow, in Sea State 2. It shall have twin propulsors with twin diesel inboard drive, pilothouse controls, five berths, dinette with seating for four and two diesel engine driven (DED) generators. The mission of the Tug is to provide towing of Lighter Aboard Ship ( LASH) and general barges in harbors, inland waterways, and along coastlines. It will also assist larger tugs in the performance of heavier utility work.

JUSTIFICATION: The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics-Over-The-Shore (LOTS). During Operation Desert Shield/Storm it became very apparent that the 40 year-old Small Tugs could not be relied upon to move the various types of barges, lighters, and cranes within and without the harbor during any type of severe weather. Cost estimates have shown that it is cheaper to build new, large-engined Pusher Tugs which can operate effectively in Sea State 2, rather than modifying the 40 year-old Small Tugs. The 73rd Floating Craft Company at Ft. Eustis, Va. and the 949th Transportation Company (Army Reserves) at Baltimore, Md. will each receive one of the two FY97 vessels. The requirements for the Pusher Tugs have been validated by the Army Watercraft Master Plan (AWMP).

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON PUSHER TUG, SMALL (M44500)				C. MANUFACTURER NAME		D. DATE March 1996	
OPA Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97			
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	
HARDWARE	A							2839	1	2839000	5977	2	2988500	
PROVISIONING								300			600			
GOVERNMENT ENGINEERING								200			175			
ENGINEERING CHANGES								75			125			
TESTING								50						
TOTAL								3464			6877			



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
<b>HARDWARE</b>										
FY 96	TBS	C/FP(OPT	ATCOM	Apr-96	May-97	1	2839000	Yes		
FY 97	TBS	OPTION	ATCOM	Feb-97	Sep-97	2	2988500	Yes		
<b>REMARKS:</b> Type over this. Text will wrap. If you need more space, you must create a narrative page.										

[illegible]



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY							March 1996
OTHER PROCUREMENT / Other Support Equipment				P-1 ITEM NOMENCLATURE			
FLOATING CRANE, 100-250 TON (M32400)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY		0	0	1	1	1	1
COST (in millions)		0.0	0.0	14.3	14.3	14.1	14.1
<p><b>DESCRIPTION:</b> The Floating Crane will be constructed of steel and capable of off-loading existing and projected shipping through the year 2020. The Crane must be transportable on Float On/Float Off (FLO/FLO) ships, have onboard self-propulsion, self-maneuvering, self-positioning capability; be capable of a minimum service speed of 4-6 knots; have living accommodations (berthing, cooking, sanitary) for 15 persons; and have heating ventilation and air conditioning. The Crane must operate on diesel and/or Jet Propellant - 8 (JP-8) fuel for 30 days without refueling. It must be operational during night operations and while soldiers are dressed in Mission Oriented Protective Posture IV (MOPP IV) clothing.</p> <p><b>JUSTIFICATION:</b> The current Floating Cranes are approximately 40 years old and are unable to load/unload post-World War Two designed vessels (due to the increased height and width of said vessels). The 73rd Floating Craft Company at Ft. Eustis, Va. is scheduled to receive the FY97 Floating Crane. This unit has been heavily involved in outloading materiel in various recent humanitarian and force-projection operations. The need for the new Floating Crane in the 73rd Floating Craft Company has been identified in the Army Strategic Mobility Plan (ASMP).</p>							

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON FLOATING CRANE, 100-250 TON (M32400)				C. MANUFACTURER NAME		D. DATE March 1996	
OPA Cost Elements	ID	FY 94			FY 95			FY 96			FY 97		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
HARDWARE	A										13523	1	13523000
PROVISIONING											300		
GOVERNMENT ENGINEERING											300		
ENGINEERING CHANGES											150		
TESTING											55		
TOTAL											14328		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE FY 97	TBS	C/FP(OPT ATCOM		Apr-97	Jun-98	1	13523000	Yes		
REMARKS:										





BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Other Support Equipment		RAILWAY CAR, FLAT, 100 TON (M37000)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		109	110	138	165	177	103	174
COST (in millions)		14.6	11.4	14.5	17.8	20.3	12.1	21.0

**DESCRIPTION:** Funding is for the acquisition of 68 and 89 foot railcars of a design type already approved by the Association of American Railroads (AAR). Railcars are to be prepositioned at select Army installations per the congressionally mandated Mobility Requirements Study (MRS) approved by the Joint Chiefs of Staff (JCS) in January 1992, and per the Army Strategic Mobility Plan (ASMP). The railcars being acquired are new production cars.

**JUSTIFICATION:** Prepositioning of railcars at Army installations is essential for mobilization purposes, especially with the forces becoming increasingly CONUS-based. Under the ASMP, the lead brigade at select installations must be fully outloaded to the port of embarkation in C+2 days, with an entire division to be outloaded in C+6 days. Experience with the railroad industry (as evidenced during Desert Shield/Desert Storm) has shown that it takes an average time of seven to ten days to order and receive commercial railcars for outloading purposes. Additionally, industry is retiring many of their fleet of flatcars with no intention of replacement. As such, to meet the C+2 and C+6 mobilization requirements in response to regional threats/conflicts, it is essential that the Army acquire and preposition railcars at installations such as Ft. Hood, Ft. Campbell, Ft. Stewart, Ft. Bliss and Ft. Benning. The acquisition of railcars is required to outload combat and combat support equipment in the time frames required, thereby greatly enhancing our warfighting capability. FY 97 acquisitions are essential for increasing the Army's mobilization readiness state.

OPA Cost Analysis			A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON RAILWAY CAR, FLAT, 100 TON (M37000)			C. MANUFACTURER NAME			D. DATE March 1996		
Cost Elements	ID	CD	FY 94			FY 95			FY 96			FY 97		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Hardware (Total)	A					14,596	140	104,257	11,400	106	107,547	14,464	138	104,812
Railcar, 68 foot						(6,958)	(70)		(3,762)	(36)		(5,940)	(57)	
Railcar, 89 foot						(7,638)	(70)		(7,638)	(70)		(8,524)	(75)	
TOTALS						14,596			11,400			14,464		

FY 95 and 96 differences in quantities are based on actual contract awards.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)									
DATE									
March 1996									
C. P-1 ITEM NOMENCLATURE									
RAILWAY CAR, FLAT, 100 TON (M37000)									
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D
Hardware (Total)									
FY 94									
Railcar, 68 foot	AMF, Montreal, Canada	C/FP/OPTION	ATCOM	Jun-94	Nov-94	187	80,490		
Railcar, 89 foot	AMF, Montreal, Canada	C/FP/OPTION	ATCOM	Jun-94	Nov-94	93	75,086		
	AMF, Montreal, Canada	C/FP/OPTION	ATCOM	Jun-94	Nov-94	94	85,894		
FY 95									
Railcar, 68 foot	AMF, Montreal, Canada	C/FP	ATCOM	Aug-95	May-96	140	104,257	YES	NO
Railcar, 89 foot	AMF, Montreal, Canada	C/FP	ATCOM	Aug-95	May-96	70	99,400	YES	NO
	AMF, Montreal, Canada	C/FP	ATCOM	Aug-95	May-96	70	109,114	YES	NO
FY 96									
Railcar, 68 foot	AMF, Montreal, Canada	C/FP/OPTION	ATCOM	May-96	Jul-96	106	107,547	YES	NO
Railcar, 89 foot	AMF, Montreal, Canada	C/FP/OPTION	ATCOM	May-96	Jul-96	36	99,400	YES	NO
	AMF, Montreal, Canada	C/FP/OPTION	ATCOM	May-96	Jul-96	70	109,114	YES	NO
FY 97									
Railcar, 68 foot	TBS	C/FP	ATCOM	Apr-97	Jan-98	138	104,812		
Railcar, 89 foot	TBS	C/FP	ATCOM	Apr-97	Jan-98	57	104,211		
	TBS	C/FP	ATCOM	Apr-97	Jan-98	75	113,653		
REMARKS: Fourth quarter FY 95 award due to late start on new railcar acquisition. Attempt to acquire used railcars earlier in FY 95 was unsuccessful as no responsive bids were received and costs to refurbish at repair shops under contract with MTMC were substantially higher than projected. FY 96 award will be option to the FY 95 contract.									





**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)		2.0	2.5	5.7	9.3	5.0	4.6	4.5

DESCRIPTION: Railroad equipment consists of locomotives, rolling stock, track maintenance equipment, etc., used to support Army ammunition plants, AMC depots, and FORSCOM/TRADOC installations in peacetime and mobilization missions.

JUSTIFICATION: Acquisition of high quality used railroad equipment (e.g. locomotives, tank cars, box cars, flat cars, maintenance tool sets) will provide for replacement of over age, logistically unsupportable assets. Acquisitions will provide a safe, secure means for the transportation and handling of hazardous materials used in the ammunition manufacture process, and in the movement of completed ammunition to distribution points. Also, acquisition of rail assets will insure compliance with ammunition production contracts and schedules, will improve the U.S. Army's ability to meet unit training requirements and will improve the capability to meet projected surge-driven scenarios for unit mobilization outloading and ammunition production. Funding in FY 97 will be utilized to procure railroad equipment that meets FRA standards and increases Army Ammunition Plant readiness capabilities.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)				C. MANUFACTURER NAME		D. DATE March 1996	
ID	CD	FY 94		FY 95		FY 96		FY 97					
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	UnitCost
		\$000	Each	\$	\$000	\$000	Each	\$	\$000	\$000	Each	\$	\$
OPA													
Cost Elements													
	A				1,999		55	36,345	1,992			1,730	1,730,000
Locomotive, 120 Ton (M356)													
	A									38,308	52	1,999	39,196
Boxcar, 50 ton, 50 foot (M377)													
	A								528	37,714	14	1,999	41,646
Flatcar, 50 ton (M371)													
TOTAL					1,999				2,520			5,728	



BUDGET ITEM JUSTIFICATION SHEET								DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Other Support Equipment		GENERATORS AND ASSOCIATED EQUIP (MA9800)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	0	0	0	0	0
COST (in millions)		25.8	13.3	13.2	15.2	87.2	115.0	99.7

DESCRIPTION: Rollup of generators with varying sizes and capabilities specifically designed to provide sources for numerous weapons, communication, medical and support systems which are designed to operate with mobile electric power.

JUSTIFICATION:

The Tactical Quiet Generators (TQG) and less than 3KW Diesel programs are a result of DA and DOD direction to replace the current generator fleet. The current fleet is overaged and doesn't meet current user requirements. These requirements are designed to introduce into the DOD inventory a new family of generators (sizes 2KW through 60 KW) that will satisfy the user requirements for:

1. Reduction in detection by threat forces of 80% (low operating noise and infrared suppression ).
2. Improved ground mobility, lighter weight, 5, 10, and 15kw trailers compatible with HMMWV.
3. Improved reliability and lower operating and support costs. (reduction in scheduled maintenance, reduction in fuel consumption)
4. Improved battlefield survivability (high altitude electromagnetic pulse protection).
5. Single fuel on the battlefield (diesel/JP8).
6. Reduced generator requirements (with utilization of the Distribution Illumination System Electric - DISE).

The generators and associated equipment budget line is a roll line containing some 40 separate generators, power plants/power units and associated equipment.

The TQG program will replace the current fleet of overaged, gasoline fueled generators with modernized assets that will enhance the user's safety and survivability. These modernized mobile generators provide electrical power to virtually every weapon, communication, medical, and combat support system in the Army inventory. FY97 continues the fielding of skid mounted generator sets, power units and power plants in support of Force Package I-IV.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON GENERATORS AND ASSOCIATED EQUIP (MA9800)			C. MANUFACTURER NAME			D. DATE March 1996	
Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
2 KW Generator Sets								4800	677	7	1509	252
3 KW Generator Sets				575								
5 KW Generator Sets				1912	100	19		64	5	13	1737	100
10 KW Generator Sets				1679	100	17		72	5	14	2275	128
15 KW Generator Sets				3301	192	17		74	5	15	2064	110
30 KW Generator Sets				6625	445	15		3292	23	143	1442	
60 KW Generator Sets				4509	243	19		3292	23	143	1683	
Power Units / Power Plants				3100	400	8		470	111	4	1035	85
Distribution Illumination Systems				1587								
Readiness Incentives				2554				1268			1442	
<b>TOTAL</b>				<b>25842</b>				<b>13332</b>			<b>13187</b>	
NOTE: FY96 PROGRAM REFLECTS CHANGES NECESSITATED BY THE CANCELLATION OF THE 3KW PROGRAM IN FY95.												

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		Generator Set 2KW									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY			677	252	155	1800	1800	1580			
COST (in millions)			4.8	1.5	1.0	9.9	10.2	9.3			

**DESCRIPTION:** 2KW Generator Set, Manportable/Skid Mounted, Diesel/JP-8 fueled, AC (60hz) and DC (28Vdc)

**JUSTIFICATION:** This program will replace existing overaged gasoline engine driven sets with modernized new asset with improved reliability, reduced noise signatures, and diesel/JP-8 fueled engines. These new modernized sets will replace gasoline fueled generators supporting the following systems:

**MISSILE/AIR DEFENSE SYSTEMS:**

- Hawk Missile Systems
- Avenger
- Tactical Command/Control/Intelligence Computer Systems

**COMMUNICATION SYSTEMS:**

- Radio Terminal Systems (BCR 11)
- Radio Relay/Repeater System
- Satellite Communication Systems

FY97 continues the fielding of skid mounted generator sets in support of Force Package I.



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 3 / Other Support Equipment				C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR		CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
2KW / 60 HZ / AC - M594		Mechron TBS TBS	SS/FP	ATCOM	Mar-96	Aug-96	650	5000	Yes		
FY 96	C/FP-R5(1)		ATCOM	Jun-96	May-97	11	10000	Yes			
FY 97	C/FP-R5(2)		ATCOM	Jun-97	May-98	168	5225	Yes			
2KW / DC - M593		TBS TBS	C/FP-R5(1)	ATCOM	Jun-96	Dec-97	11	10000	Yes		
FY 96	C/FP-R5(2)		ATCOM	Jun-97	May-98	84	5225	Yes			
FY 97											

REMARKS: Sole Source contract for 650 units is scheduled to be awarded to Mechron LTD, Ottawa, Canada in March.  
Competitive solicitation to be issued in March with award anticipated in June. Resultant contract will be a five year requirements type contract.





**THIS PAGE IS INTENTIONALLY BLANK**



BUDGET ITEM JUSTIFICATION SHEET										DATE		March 1996	
APPROPRIATION / BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT /Other Support Equipment			GENERATOR SET 3KW										
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001					
QUANTITY		0	0	0	956	1329	1373	1600					
COST (in millions)		0.6			6.7	10.3	10.5	12.9					

DESCRIPTION: 3KW Generator Set, Skid Mounted, Diesel Fueled Tactical Quiet Generator that will replace existing gasoline fueled generator sets with modernized assets that increase safety and survivability by reducing operating noise levels, reducing reducing weight, provide altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these generators are components of the power plant production program. These new modernized sets will replace gasoline fueled generators supporting the following systems:

- Avenger
- Mobile Subscriber Equipment
- Patriot Missile
- Hawk Missile
- Multiple Launch Rocket System
- Numerous communication and combat support systems

NOTE: In FY95 the Ferment contract was terminated for convenience of the Government. In FY96 a new 3KW development contract will be awarded with production options in FY98/99/00.

**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY		DATE	
		March 1996	

OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE					Generator Set 5KW TQG		
FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
	100	5	100	50	1413	1912	1230		
	1.9	0.1	1.7	0.7	15.7	21.6	14.4		

DESCRIPTION: 5KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ that will replace existing overaged gasoline/diesel sets with modernized assets that increased safety and survivability by reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signature suppression. These generators are components of the power unit/power plant production program. These new modernized sets will replace gasoline fueled generators supporting the following systems:

- MISSILE/AIR DEFENSE SYSTEMS:
- Hawk Missile Systems
  - Tow Missile Systems
  - Patriot Missile System
  - Avenger
  - Multiple Launch Rocket System

- SUPPORT SYSTEMS:
- Helicopters (AH-64, AH-1)
  - Command and Control Centers

- COMMUNICATION SYSTEMS:
- MSE
  - Radio Terminal Systems (BCR 11)
  - Radio Relay/Repeater Systems
  - Satellite Communication Systems
  - Combat Computer Systems

JUSTIFICATION: FY97 continues the fielding of skid mounted generator sets, power units and power plants in support of Force Package I & II. Due to component commonality in the 5 and 10KW, they are to be procured under the same contract and produced on the same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON Generator Set 5KW TQG			C. MANUFACTURER NAME			D. DATE March 1996		
OPA Cost Elements	ID CD		FY 94			FY 95			FY 96			FY 97		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Item Hardware 5 /60 KW - M535	A					950	100	10	49	5	10	1337	100	13
2. Engineering Government						430			6			100		
3. Data						151			5			100		
4. Engineering Change Orders						150			4			100		
5. Acceptance testing						231						100		
<b>TOTAL</b>						1912			64			1737		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
Generator Set 5KW TQG										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
5 /60 KW - M535	Fermont, Bridgeport, CT	C/FP-R3(1)	ATCOM	Jan-95	Sep-96	65	9384	Yes		
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1)	ATCOM	Sep-95	Jan-97	100	9500	Yes		
FY 95	Fermont, Bridgeport, CT	C/FP-R3(2)	ATCOM	Jan-96	Feb-97	5	9806	Yes		
FY 96	Fermont, Bridgeport, CT	C/FP-R3(3)	ATCOM	Jan-97	Dec-97	100	13370	Yes		
FY 97										
<b>REMARKS:</b> The third ordering period on the Fermont contract will be exercised in Jan 97. In addition, due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.										





**THIS PAGE IS INTENTIONALLY BLANK**



BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Other Support Equipment		Generator Set 10KW/TQG						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		100	5	128	50	1025	1385	954
COST (in millions)		1.7	0.1	2.3	0.7	13.3	18.2	12.9

DESCRIPTION: 10 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ that will replace existing generator sets with assets that increase safety and survivability by: reducing operating levels, reducing weight, providing high altitude electromagnetic pulse protection, and increased infrared signal suppression. These generators are components of the power unit/power plant production program. These new modernized sets will replace gasoline fueled generators supporting the the following systems:

MISSILE/AIR DEFENSE SYSTEMS:

- Hawk Missile Systems
- Tow Missile Systems
- Patriot Missile System
- Avenger
- Multiple Launch Rocket System

SUPPORT SYSTEMS:

- Helicopter (AH-64, AH-1)
- Laundry Units
- Command and Control Centers

COMMUNICATION SYSTEMS:

- MSE
- Radio Terminal Systems (BCR 11)
- Radio Relay/Repeater Systems
- Satellite Communication Systems
- Combat Computer Systems

JUSTIFICATION: FY97 continues the fielding of skid mounted generator sets and power units in support of Force Package I and II. Due to component commonality in the 5 and 10KW, they are procured under the same contract and produced on the same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON Generator Set 10KW TQG			C. MANUFACTURER NAME			D. DATE March 1996		
Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Item Hardware 10 KW / 60 HZ 10 KW / 400 HZ 10 KW / 60 HZ (first article units)	A				1121	100		11	57		1209	105	12
2. Engineering Government					175				5		270	23	12
3. Data					158				5		200		
4. Engineering Change Orders					125				1		291		
5. Acceptance testing					100				4		105		
TOTAL					1679				72		2275		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
10 KW / 60 HZ - M529										
FY 92	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Jan-95	Sep-96	151	10910	Yes		
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Jan-95	Nov-96	340	10910	Yes		
FY 95	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Sep-95	Mar-97	100	11210	Yes		
FY 96	Fermont, Bridgeport, CT	C/FP-R3(2) ATCOM		Jan-96	May-97	5	11401	Yes		
FY 97	Fermont, Bridgeport, CT	C/FP-R3(3) ATCOM		Jan-97	Dec-97	105	11514	Yes		
10 KW / 400 HZ - M565										
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Jan-95	Nov-96	5	47311	Yes		
FY97	Fermont, Bridgeport, CT	C/FP-R3(3) ATCOM		Jan-97	Dec-97	23	11739	YES		
<b>REMARKS:</b> FY92 funds were carried over due to protest on contract. The third ordering period on the Fermont contract will be exercised in Jan 97. In addition, due to acquisition reform guidelines, conversion of military specification to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.										

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DATE										March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
COST ELEMENTS										MFR		FY		SERV		PROC		ACCEP.		BAL		Fiscal Year 95										Fiscal Year 96										L A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
										1	2	1	2	1	2	1	2	1	2	1	2																															1	2	1	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Generator Sets 10 KW										1		FY 92	A	151		0		151																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</



**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

March 1996

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT / Other Support Equipment

Generator Set 15KW TQG

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		192	5	110	45	321	497	387
COST (in millions)		3.3	0.1	2.1	0.7	5.8	8.7	5.9

DESCRIPTION: 15KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400HZ, that will replace existing overaged generator sets, with modernized assets that increase safety and survivability by reducing noise operating levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These new modernized sets will replace overaged generators supporting the following systems:

## MISSILE/AIR DEFENSE SYSTEMS

- Hawk Missile
- Tow Missile
- Patriot Missile
- Avenger

## COMMUNICATION SYSTEMS

- Mobile Subscriber Equipment
- Radio Relay/Repeater Systems
- Satellite Communication Systems

## SUPPORT SYSTEMS

- Water Purification Systems
- Helicopters
- Modular Print System
- Command and Control Centers

JUSTIFICATION: The FY97 program continues the fielding of 15 KW TQG sets to Force Package I.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON Generator Set 15KW TQG			C. MANUFACTURER NAME			D. DATE March 1996		
ID	CD	OPA Cost Elements	FY 94			FY 95			FY 96			FY 97		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1.		Item Hardware												
		15 KW / 60 HZ - M549				1114	100	11	59	5	12	1300	105	12
		15 KW / 400 HZ - M526				580	44	13				72	5	14
		15 KW / 400 HZ - M526 (Special Buy)				862	48	18						
		15 KW / 60 HZ - M549(first article units)												
2.		Engineering Government				125			5			200		
3.		Eng Change Orders				125			5			175		
4.		Acceptance Testing				190			4			200		
5.		Data				100			1			117		
6.		Other				204								
		<b>TOTAL</b>				<b>3301</b>			<b>74</b>			<b>2064</b>		



BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
Generator Set 15KW TQG											
OTHER PROCUREMENT / 3 / Other Support Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
15 KW / 60 HZ - M549											
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Jan-95	Nov-96	117					
FY 95	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Sep-95	Dec-96	100	11340	Yes			
FY 96	Fermont, Bridgeport, CT	C/FP-R3(2) ATCOM		Jan-96	Feb-97	5	11142	Yes			
FY 97	Fermont, Bridgeport, CT	C/FP-R(3) ATCOM		Jan-97	Dec-97	105	11850	Yes			
							12381	YES			
15 KW / 400 HZ - M526											
FY 92	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Jan-95	Sep-96	85	13191	Yes			
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1) ATCOM		Jan-95	Nov-96	105	13191	Yes			
FY 95	Fermont, Bridgeport, CT	C/FP-R3(2) ATCOM		Jan-95	Dec-96	44	13191	Yes			
FY 97	Fermont, Bridgeport, CT	C/FP-R(3) ATCOM		Jan-97	Dec-97	5	14400	YES			
15 KW / 400 HZ - M526 (Special Buy)											
FY 93	Libby Corp, Kansas City, MO	F/FP-SS ATCOM		Mar-95	May-95	128	17960	Yes			
FY 95	Libby Corp, Kansas City, MO	F/FP-SS ATCOM		Mar-95	May-95	48	17960	Yes			
REMARKS:											
FY 92 \$\$\$ were carried over due to protest on rebuy contract.											
A sole source contract was awarded to Libby Corp for urgent need of 15/400's.											
The third ordering period on the Fermont contract will be exercised in Jan 97.											





**THIS PAGE IS INTENTIONALLY BLANK**

OPA Cost Analysis			A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON Generator Set 30KW TQG			C. MANUFACTURER NAME			D. DATE March 1996		
ID	CD	OPA Cost Elements	FY 94			FY 95			FY 96			FY 97		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		1. Item Hardware 30 KW / 60 HZ - M532 30 KW / 60 HZ - M532 (Sole Source) 30 KW / 400 HZ - M501	5978 425	422 23	14 18	648 180	18 5	36 36						
		2. Engineering Government	61			400			375					
		3. Eng Change Orders	60			400			325					
		4. Acceptance Testing	50			250			367					
		5. Data	50			250			375					
		<b>TOTAL</b>	<b>6625</b>			<b>2128</b>			<b>1442</b>					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										
C. P-1 ITEM NOMENCLATURE										
Generator Set 30KW TQG										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
30 KW / 60 HZ - M532										
FY 92	Fermont, Bridgeport, CT	C/FP-R3(1)	ATCOM	Jan-95	Sep-96	134	13894	Yes		
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1)	ATCOM	Jan-95	Nov-96	169	13894	Yes		
FY 95	Fermont, Bridgeport, CT	C/FP-R3(1)	ATCOM	Jan-95	Jan-97	422	14167	Yes	No	
FY 96	TBS	C/FP-R3(1)	ATCOM	Mar-96	Jun-98	18	36000	No	Yes	Sep-95
30 KW / 60 HZ - M532 (Sole Source)										
FY 94	Libby Corp, Kansas City, MO	F/FP-SS	ATCOM	Mar-95	May-95	93	18457	Yes	No	
FY 95	Libby Corp, Kansas City, MO	F/FP-SS	ATCOM	Mar-95	May-95	23	18457	Yes	No	
30 KW / 400 HZ - M501										
FY 94	Fermont, Bridgeport, CT	C/FP-R3(1)	ATCOM	Jan-95	Nov-96	50	15741	Yes		
FY 96	TBS	C/FP-R3(1)	ATCOM	Mar-96	Jun-98	5	36000	No	Yes	Sep-95
REMARKS:										
FY 92 \$\$\$ were carried over due to protest on rebuy contract.										
FY 94 is a new 3-year requirements type contract with Options in FY94/95/96.										
FY 96 is a new contract with First Article Testing and follow-on production (FY 98-00). Unit Price is for First Article Test units.										







**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		Generator Sets 60KW TQG									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		243	23	0	67	267	362	530			
COST (in millions)		4.5	3.3	1.7	1.5	5.3	7.6	11.5			

  

**DESCRIPTION:** 60 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400HZ, that will replace existing overaged generator sets with assets that will increase safety and survivability by reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant program, and are required for material fielding and sustainment of the following systems:

  

<b>MISSILE/AIR DEFENSE SYSTEMS</b> - Hawk Missile - Tow Missile - Patriot Missile - Avenger	<b>COMMUNICATION SYSTEMS</b> - Mobile Subscriber Equipment - Radio Relay/Repeater Systems - Satellite Communication Systems	<b>SUPPORT SYSTEMS</b> - Water Purification Systems - Helicopters - Modular Print System - Medical Systems - Command and Control Centers
---	--	---

  

**JUSTIFICATION:**

FY97 funds will complete engineering changes and First Article Testing required by new EPA standards.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Generator Sets 60KW TQG				C. MANUFACTURER NAME				D. DATE March 1996	
OPA Cost Elements		FY 94		FY 95		FY 96		FY 97							
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000		
1. Item Hardware 60 KW / 60 HZ - M532 60 KW / 400 HZ - M534	A				4209	243	17	540	15	36					
2. Engineering Government					75			288	8	36					
3. Eng Change Orders					75			964			441				
4. Acceptance Testing					50			500			400				
5. Data					100			500			400				
<b>TOTAL</b>					<b>4509</b>			<b>3292</b>			<b>1683</b>				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										Generator Sets 60KW TQG	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
60 KW / 60 HZ - M532 FY 94 FY 95 FY 96	Fermont, Bridgeport, CT Fermont, Bridgeport, CT TBS	C/FP-R3(1) ATCOM C/FP-R3(1) ATCOM C/FP-R3(1) ATCOM		Jan-95 Jan-95 Mar-96	Oct-96 Jan-97 Jun-98	113 243 15	17046 17320 36000	Yes Yes No		Yes Yes Sep-95	
60 KW / 400 HZ - M534 FY 94 FY 96	Fermont, Bridgeport, CT TBS	C/FP-R3(1) ATCOM C/FP-R3(1) ATCOM		Jan-95 Mar-96	Oct-96 Jun-98	67 8	19795 36000	Yes No	Yes Yes	Sep-95 Sep-95	

REMARKS:

New EPA requirements in FY 96 will require engine changes in FY 96. FY 96 is a new contract award for FY 96-00 for design and testing on sets with new certified engines and follow-on production (FY 98-00)  
FY 96 Unit Price is for First Article Test Units.





**THIS PAGE IS INTENTIONALLY BLANK**

<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE	March 1996
--	--	------	------------

APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT /Other Support Equipment		Production Of Power Units And Power Plants						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		400	111	85	113	1654	2246	1490
COST (in millions)		3.1	0.5	1.1	1.3	20.9	30.3	20.4

**DESCRIPTION:** Depot/Field Manufacturing Program thru FY96: HMT Chassis trailers are procured from TACOM. Electronic components and raw material are procured through the depot. From these items the Power Units and Power Plants are assembled. These assemblies are completed when Tactical Quiet Generators (TQG), procured by ATCOM, are installed on the trailer interface. Power units consist of 1 TQG mounted on 1 trailer interface. Power Plants consist of 2 TQGs mounted on 1 or 2 trailer interfaces with a paralleling switch box installed.

**JUSTIFICATION:** FY97 will be a new competitive acquisition contract for power unit/power plant integration with TQG assets designed to provide greater reliability, quieter operation, extended mean-time-between failure, and replace overaged diesel and gasoline fueled assets.

Total package fielding of the following systems are dependent upon these power unit/power plant configurations:

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>- MSE</li> <li>- Aviation Systems</li> <li>- Hawk Missile Systems</li> <li>- Patriot Missile Systems</li> <li>- Bradley Infantry Fighting Vehicle</li> </ul> | <ul style="list-style-type: none"> <li>- Multiple Launch Rocket Systems</li> <li>- Computer Systems</li> <li>- Avenger</li> <li>- Satellite Communication Systems</li> <li>- Battlefield Communications Systems (BCR 11)</li> </ul> |
|---|---|

System Sustainment is critical for such items as:

- Air Defense Systems
- Radio Relay/Repeater Systems
- Radio Terminal Systems
- MSE
- Aviation Systems
- Missile Systems
- Medical Systems
- Command and Control Centers
- Combat Support Systems



OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON Production Of Power Units And Power Plants				C. MANUFACTURER NAME		D. DATE March 1996	
OPA				FY 94			FY 95			FY 96			FY 97		
Cost Elements				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Item Hardware															
AN/MJQ-35 - M541													525	30	18
PU797A - R627													190	20	10
PU798A - R591													239	25	10
PU799A - M505															
PU801 - M500													81	10	8
PU802 - M500															
PU803 - M543															
AN/MJQ-40 - M5190															
2. Engineering Government															
3. Eng Change Orders															
4. Acceptance															
5. Data															
TOTAL													1035		
							</								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / 3 / Other Support Equipment					Production Of Power Units And Power Plants						
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A	
AN/MJQ-35 - M541 FY 96 FY 97	Tobyhanna Depot TBS	WR WR	ATCOM/TOBYHANNA ATCOM/TACOM	Feb-96 Mar-97	Jun-96 Dec-97	4 30	16000 17500	Yes Yes			
PU797A - R627 FY 95 FY 95 FY 96 FY 97	Ft. Hood, TX - HMT Trailers Ft. Drum, NY - HMT Trailers Tobyhanna Depot TBS	WR WR WR WR	ATCOM/TACOM ATCOM/TACOM ATCOM/TOBYHANNA ATCOM/TACOM	Jun-95 Jun-95 Feb-96 Mar-97	Oct-95 Oct-95 May-96 Dec-97	100 100 30 20	7000 7000 5000 9500	Yes Yes Yes Yes			
PU798A - R591 FY 95 FY 95 FY 96 FY 97	Ft. Hood, TX - HMT Trailers Ft. Drum, NY - HMT Trailers Tobyhanna Depot TBS	WR WR WR WR	ATCOM/TACOM ATCOM/TACOM ATCOM/TOBYHANNA ATCOM/TACOM	Jun-95 Jun-95 Feb-96 Mar-97	Oct-95 Oct-95 May-96 Dec-97	100 100 57 25	7000 7000 3509 9560	Yes Yes Yes Yes			
PU801A - M500 FY 96 FY 97	Tobyhanna Depot TBS	WR WR	ATCOM/TOBYHANNA ATCOM/TACOM	Feb-96 Mar-97	May-96 Dec-97	9 10	5000 9500	Yes Yes			
PU802 FY96 PU803 FY96	Tobyhanna Depot Tobyhanna Depot	WR WR	ATCOM/TOBYHANNA ATCOM/TOBYHANNA	Feb-96 Feb-96	May-96 May-96	7 4	5000 5000	Yes Yes			
REMARKS:											
Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed PU/PP. FY 95 procurement of HMT's was executed in June 1995. HMT's will begin to be integrated into the power unit/power plant integration beginning at Ft. Hood, TX and then at Ft. Drum, NY. PU/PP integration will be completed in FY 97. FAT required.											

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										Production Of Power Units And Power Plants										DATE										March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
COST ELEMENTS										M F R										S E R V										PROC QTY Each										ACCEP. PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										Fiscal Year 95										Fiscal Year 96										L A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
																																																												Calendar Year 95										Calendar Year 96																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										Production Of Power Units And Power Plants										DATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
COST ELEMENTS										M F R										S E R V										PROC QTY Each										ACCEP. PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										Fiscal Year 97										Fiscal Year 98																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																																																												Calendar Year 97										Calendar Year 98																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</									

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE							
				DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY											
COST (in millions)			1.6								
<p><b>DESCRIPTION:</b> Distribution Illumination System Electrical is used to redistribute power from either a single generator or larger feeder system to multiple power users.</p> <p><b>JUSTIFICATION:</b> Will be fielded in conjunction with Tactical Quiet Generators to support numerous communication, weapons, and medical systems. Distribution systems are planned to reduce the number required by the Army by distributing power from one generator to multiple power requirements. Systems supported by this item include: Joint Tactical Fusion, Satellite Communications and Deployable Medical System.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)				C. MANUFACTURER NAME		D. DATE March 1996	
ID	CD	FY 94		FY 95		FY 96		FY 97		TotalCost	UnitCost	Qty	UnitCost
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each				
OPA Cost Elements													
DISE 60 AMP (R45200)				417	87	5							
DISE 40 AMP (R45300)				239	38	6							
DISE 100 AMP (545400)				117	20	6							
DISE 200 AMP (R45500)				121	13	9							
DISE UTILITY (R62800)				693	294	2							
TOTAL:				1587									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY95 DISE	FEDERAL PRISON INDUSTRIES	SS/FP	ATCOM	Mar-95	Jan-96	87	6303	YES	NO	
60 AMP DISE						38	4802	YES	NO	
40 AMP DISE						20	5851	YES	NO	
100 AMP DISE						13	9369	YES	NO	
200 AMP DISE						294	2357	YES	NO	
KIT ELECTRICAL UTILITY										
REMARKS:										





BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION/BUDGET ACTIVITY		DATE							
		March 1996							
		P-1 ITEM NOMENCLATURE							
		OTHER PROCUREMENT/OTHER SUPPORT EQUIPMENT					Readiness Incentives		
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)									

**DESCRIPTION:** Supports numerous generator improvement programs: Sample Data Collection, Disassembly of Power Units and Power Plants, Generator System Assessments, production engineering and various testing on generator systems, that are not separately authorized.

**JUSTIFICATION:**

	FY 1994	FY 1995	FY 1996	FY 1997
SAMPLE DATA COLLECTION		0.750	0.100	0.350
CONTRACT/FIELDING SUPPORT		0.923	0.600	0.742
SYSTEM ASSESMENT		0.871	0.568	0.350
<b>TOTALS:</b>	<b>0.000</b>	<b>2.544</b>	<b>1.268</b>	<b>1.442</b>

**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT / Other Support Equipment

TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	30	0	0	61	96	94
COST (in millions)		0.0	10.6	0.0	0.0	20.0	31.4	31.8

DESCRIPTION: The Rough Terrain Container Handler (RTCH) provides a capability of handling the 8' wide family of ISO containers weighing up to 50,000 pounds and 20' and 40' long. It is a rough terrain truck designed for operating on soft soil conditions such as unprepared beaches. The RTCH is four wheel drive and capable of fording in up to 5' of saltwater. The RTCH is a modified commercial design.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)				C. MANUFACTURER NAME TBS		D. DATE March 1996				
OPA Cost Elements	ID CD	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each							UnitCost \$000
HARDWARE	A															
LOGISTICS SUPPORT																
GOVERNMENT ENGINEERING																
ECO																
TESTING																
TOTAL																

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 3 / Other Support Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY 96	TO BE SELECTED	C/FP/OPT	DSCC	Jul-96	Mar-97	30	337	YES	NO	
REMARKS: FY 96 funds will be executed as an option to an Air Force contract awarded by DSCC.										



BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY		0	107	151	0	96	95	94			
COST (in millions)		0.0	14.0	16.0	0.0	10.6	10.6	10.6			

**DESCRIPTION:** The All Terrain Lifting Articulated System (ATLAS) is a rough terrain forklift which has the same mobility and speed as the Army's current 6,000 lb (6K) variable reach rough terrain forklift and can perform the functions required of the current Army standard 10,000 lb (10K) rough terrain forklifts. The vehicles have drive on-drive off capability for C-130 deployability and variable reach capability for stuffing/nonstuffing ISO containers.

**JUSTIFICATION:** FY 97 funds continue acquisition of Force Package 1 procurements. Current 6,000 and 10,000 lb rough terrain forklifts procured during 1967-1980 assigned to Quartermaster Units require replacement due to overage and inability to accomplish new mission requirements. They are not capable of stuffing and unstuffing 20 foot International Standardization Organization (ISO) containers. The current 10,000 lb. forklift requires major disassembly and use of a special kit for air transport by C-130 and C-17 aircraft. The ATLAS operational concept requires use throughout the theatre to expedite logistical support functions. All classes of supply will be handled.





# BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	March 1996	
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 3 / Other Support Equipment				C. P-1 ITEM NOMENCLATURE						ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A			
FY 96	TRAK INTERNATIONAL PORT WASHINGTON, WI	CFP- REQ 4 (2)	TACOM	Jun-96	Nov-96	121	100	YES	NO				
FY 97	TRAK INTERNATIONAL PORT WASHINGTON, WI	CFP- REQ 4 (3)	TACOM	Mar-97	Aug-97	157	97	YES	NO				
REMARKS: FY 96 AND FY 97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN MAY 95 WHICH IS A COMPETITIVE FFP REQUIREMENTS TYPE CONTRACT. FY 96 PRICE INCLUDES NON-RECURRING COST AND IS BASED ON MINIMUM INITIAL DELIVERY ORDER OF 125 VEHICLES. FY 97 UNIT COST IS REDUCED AS CONTRACTOR WAS ONLY AUTHORIZED TO AMORTIZE NON-RECURRING COST OVER THE FIRST PROGRAM YEAR.													

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)										DATE										March 1996									
COST ELEMENTS										MFR		FY		SERV		PROC		ACCEP.		BAL		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																											

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE		ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)		DATE		March 1996															
M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 99																									
						Calendar Year 98																									
						O	N	D	J	F	M	A	A	M	J	J	A	S													
						O	N	D	J	F	M	A	A	M	J	J	A	S													
						C	O	V	E	C	N	O	E	C	O	V	C	D	E	A	N	J	F	M	A	A	M	J	J	A	S
						T																									
HARDWARE																															
	1	96	A	121	121																										
	1	94	NG	50	50																										
	1	97	A	157	49	108																									
TOTAL						328	220	108																							
						Fiscal Year 99																									
						Calendar Year 98																									
						O	N	D	J	F	M	A <td>A</td> <td>M</td> <td>J</td> <td>J</td> <td>A</td> <td>S</td>	A	M	J	J	A	S													
						C	O	V	E	C	N	O	E	C	O	V	C	D	E	A	N	J <th>F</th> <th>M</th> <th>A</th> <th>A</th> <th>M</th> <th>J<th>J<th>A</th><th>S</th> </th></th>	F	M	A	A	M	J <th>J<th>A</th><th>S</th> </th>	J <th>A</th> <th>S</th>	A	S
						T																									

  

M F R	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME			MFR			TOTAL			REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.	Prior 1 Oct.	After 1 Oct.	Prior 1 Oct.	After 1 Oct.				
1	TRAK International	20	30	60	6	1	INITIAL	12	8	6	6	14				
							REORDER	3	5			11				
							INITIAL									
							REORDER									
							INITIAL									
							REORDER									
							INITIAL									
							REORDER									
							INITIAL									
							REORDER									



BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		DATE							
OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE							
		ITEMS LESS THAN \$2.0M (MHE) (ML5365)							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY			0	0	0	0	0	0	0
COST (in millions)			4.1	2.8	2.7	1.7	1.7	1.9	1.9

DESCRIPTION: This program covers the various types of Material Handling Equipment (MHE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).

JUSTIFICATION: This program is required to fill existing backorders and high priority shortages in Army Units, AMC maintenance depots and ammunition storage facilities. This critical combat support equipment is needed for movement of materials, supplies, and equipment. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY 97 program funding will be utilized to procure 2 different Materials Handling Equipment (MHE) systems (M469 - 10k lb Whse Crane, and M482 - 6k lb Forklift). Each of these systems is being procured to replace overaged, high usage unsupportable models and fill priority shortages. These systems are essential to and are utilized in garrison, depot, ammunition plants and miscellaneous supply/material transport operations. These systems are considered essential in peacetime and are critically required in wartime operations.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON ITEMS LESS THAN \$2.0M (MHE) (ML5365)			C. MANUFACTURER NAME			D. DATE March 1998		
OPA			FY 94			FY 95			FY 96			FY 97		
ID	CD	Cost Elements	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		6K SRT FL (M482)										760	20	38
		CRANE, TRK WHS (M469)				930	14	66	836	13	64	1906	27	71
		TRK FL 4K SRT (M483)				867	38	23						
		TRAC WHS 4K (M487)				1832	104	18	1917	103	19			
		ENGR SUPPORT				469								
		TOTAL				4098			2753			2666		

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY				DATE					
OTHER PROCUREMENT /Other Support Equipment				COMBAT TRAINING CENTERS SUPPORT (MA6600)					
P-1 ITEM NOMENCLATURE									

**DESCRIPTION:**

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. CTC INCORPORATES THE FOLLOWING PROGRAMS: THE NATIONAL TRAINING CENTER (NTC), THE COMBAT MANEUVER TRAINING CENTER (CTMC), THE JOINT READINESS TRAINING CENTER (JRTC), AND THE BATTLE COMMAND TRAINING PROGRAM (BCTP). INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED UNDER THIS PROGRAM FOR THE THREE MANEUVER TRAINING CENTERS TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE INSTRUCTIVE AFTER ACTION REVIEWS. THIS PROVIDES VALUABLE FEEDBACK TO THE UNIT COMMANDER AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THE CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONG-TERM TRAINING BENEFITS, THEREBY, INCREASING THE UNIT'S COMBAT READINESS.

**JUSTIFICATION:**

THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE CTC'S ARE THE ARMY'S PREMIERE TRAINING AREA. THEIR EFFECTIVENESS WAS DEMONSTRATED BY OUR SUCCESS IN DESERT STORM. IT IS ESSENTIAL THAT OUR INVESTMENT IN THE CTCs BE MAINTAINED BY ASSURING THAT THE TRAINING PROVIDED REPRESENTS CURRENT DOCTRINE AND WEAPON CAPABILITY. THE NTC FY97 OPPOSING FORCES SURROGATE VEHICLE (OSV) WILL PROVIDE NEEDED REALISTIC SIMULATION OF THE BMP-2 INFANTRY FIGHTING VEHICLE IN THE CTC TRAINING ENVIRONMENT, RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING. VEHICLES PROCURED IN FY97 WILL SUPPORT PART OF THE TOTAL REQUIREMENT OF 190 VEHICLES.



OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON Combat Training Centers Support			C. MANUFACTURER NAME			D. DATE March 1996		
OPA Cost Elements		FY 94			FY 95			FY 96			FY 97		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1 CMTC - Hohenfels, Germany:													
CMTC Instrumentation System Support					4058			387					
2 JRTC - Ft. Polk, LA:					8204			7531					
JRTC Instrumentation System (JRTC-IS)					3433			4175					
JRTC MOUT					3283								
JRTC Live Fire Targets													
3 NTC - Ft. Irwin, CA:													
Range Data Measurement Subsystem (RDMS)					7594			2696					
CTC-IS/AGES II					2779			4474					
4 OPFOR Surrogate Vehicle (OSV)								4412			4714		
5 Reprogrammed from NSTD NAO100								-2161					
					29351			21514			4714		

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									(MA6601)
OTHER PROCUREMENT / Other Support Equipment		JOINT READINESS TRAINING CENTER - INSTRUMENTATION SYSTEM (JRTC-IS)									
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY											
COST (in millions)			8.2	7.5							
<p>DESCRIPTION:</p> <p>THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER COMBAT TRAINING CENTERS UNDER THIS PLAN TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONG TERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS.</p> <p>THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE JRTC IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (IE., FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCES). THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE JRTC-IS WILL ENABLE THE OBSERVER/CONTROLLER (O/C) TO DISPLAY SELECTED SEGMENTS OF THE BATTLE, SCORED DATA, AND REPORTS DURING THE AAR. THE POSITION LOCATION OF SELECTED FRIENDLY AND OPPOSING FORCE PARTICIPANTS WILL BE TRACKED VIA THE JRTC-IS. POSITION LOCATION (PL) WILL GIVE AN ACCURATE PICTURE OF WHERE KEY LEADERS, UNITS, AND EQUIPMENT WERE LOCATED IN THE COURSE OF A TACTICAL ENGAGEMENT TO SUPPORT THE DEVELOPMENT OF TRAINING FEEDBACK FOR THE AAR.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON (MAG601) JOINT READINESS TRAINING CENTER - INSTRUMENTATION SYSTEM (JRTC-IS)				C. MANUFACTURER NAME				D. DATE March 1996	
OPA Cost Elements		FY 94				FY 95				FY 96				FY 97	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost	TotalCost	Qty	UnitCost	Qty	UnitCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	\$000	Each	\$000	Each	\$000
2.															
JRTC - FT CHAFFEE, AR/FT POLK, LA															
A. JRTC INSTRUMENTATION SYSTEM (JRTC-IS)															
B. JRTC-IS IN-HOUSE GOVT ENGINEERING SUPT															
C. JRTC-IS SUPPORT OGA															
D. JRTC-IS PROVISIONING ITEMS															
E. JRTC-IS SYSTEM SUPPORT															
F. JRTC-IS ECPs															
Total															

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE (JRTC-IS)										(MA6801)
JOINT READINESS TRAINING CENTER - INSTRUMENTATION SYSTEM										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
2A. JRTC-IS/FY93	CUBIC DEFENSE SAN DIEGO, CA	C/CPIF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Jun-93	Sep-96	1	16601.000	YES		
2A. JRTC-IS/FY94	CUBIC DEFENSE SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-93	Sep-96	1	15686.000	YES		
REMARKS:										



Simulator and Training Device Justification									
Appropriation / P-1 Line Item				Date				March 1996	
OPA 3 CTC INSTRUMENTATION SUPPORT				Weapon System (if applicable)				Equipment Nomenclature	
								MA6600 JRTC-IS	
								PE	
Fin Plan	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	Total
Quantity (Each)									
Proc (\$000)	40.7	7.5							48.2
RDT&E (\$000)	8.4	6.2							14.6
O&S (\$000)	13.6	3.6	4.6	4.6	4.9	4.9	4.9	4.9	46.0

**TRAINING SYSTEM DESCRIPTION:**

THE JOINT READINESS TRAINING CENTER INSTRUMENTATION SYSTEM WILL SUPPORT THE UNIQUE OPERATIONAL REQUIREMENTS OF THE JRTC. WHILE THE OVERALL ARCHITECTURE WILL BE SIMILAR TO THE OTHER CTCs, THE LIGHT INFANTRY AND SPECIAL OPERATIONS FORCES GENERATE A STRINGENT SET OF TECHNICAL PERFORMANCE REQUIREMENTS.



Simulator and Training Device Justification (Page 3)										DATE		March 1996	
Training Device By Type										Weapon System (if applicable)			
OPA 3 CTC INST SPT													
Description / Justification													
MA6600 JRTC-IS													
Financial Plan	Prior Years			FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost	
	Qty	Cost		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Each	\$000		Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000
<b>HARDWARE COSTS</b>													
Device (hardware)	1	32291										1	32291
ECOs		3232			45								3277
Nonrecurring													
GFE													
Other (Specify)													
<b>SubTotal Hardware Costs</b>	<b>1</b>	<b>35523</b>			<b>45</b>							<b>1</b>	<b>35568</b>
<b>SUPPORT COSTS</b>													
Special SE													
Interim Contractor Logistic Supt		2442											2442
Systems Support		1425			7004								8429
Other (Specify) TESTING		237											237
Engineering/OGA Support		1105			482								1587
<b>SubTotal Support Costs</b>		<b>5209.0</b>			<b>7486.0</b>								<b>12695</b>
Software/Courseware													
<b>TOTAL COSTS</b>		<b>40732</b>			<b>7531</b>								<b>48263</b>



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								(M551)	
OTHER PROCUREMENT / Other Support Equipment		NTC OPPOSING FORCES SURROGATE VEHICLE									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY											
COST (in millions)			4.4	4.7			9.2		6.6		
<p>DESCRIPTION:</p> <p>THE OPPOSING-FORCE SURROGATE VEHICLE (OSV) WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 92) WILL BE ACCOMPLISHED BY MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMOS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC.</p> <p>JUSTIFICATION:</p> <p>VIABLE OPFOR REPRESENTATION IS REQUIRED TO STRESS THE BLUEFOR (UNIT TRAINED) ON THE NTC BATTLEFIELD AND ENABLE A BALANCED EVALUATION. THE OPPOSING FORCE SURROGATE VEHICLE PROVIDES REQUIRED REALISTIC SIMULATION OF THE BMP-II INFANTRY FIGHTING VEHICLE IN THE NTC TRAINING ENVIRONMENT, RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING. THE EXPENSE OF THE PER MILE OPERATING COST FOR THE OSV IS A 40% SAVINGS OVER THE CURRENT OUTDATED EQUIPMENT (M551) SIMULATING THE BMP-2. THE OSV MEETS THE REQUIREMENTS FOR SOLDIER SAFETY AND FUNCTIONAL SKILLS SUSTAINMENT FOR THE OPFOR (U.S. SOLDIER) ROLE PLAYER. THROUGH FY97, 13 VEHICLES WILL BE PROCURED TO SUPPORT THE TOTAL NTC REQUIREMENT OF 190 VEHICLES.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON OPPOSING-FORCES SURROGATE VEHICLE (OSV) (MA6601)				C. MANUFACTURER NAME		D. DATE March 1996	
		FY 94				FY 95				FY 96		FY 97	
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	UnitCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000
4. OSV	A												
A. VEHICLE													
B. PUBLICATIONS													
C. PRODUCTION TESTING													
D. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT													
E. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT													
F. ECPs													
Total													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
C. P-1 ITEM NOMENCLATURE										(MA8601)
OTHER PROCUREMENT / 3 / Other Support Equipment										OPPOSING-FORCES SURROGATE VEHICLE (OSV)
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A
4. OSV										
A. VEHICLE/FY96	ANNISTON ARMY DEPOT ANNISTON, AL	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-96	Jul-97	5	450.000	YES	NO	
A. VEHICLE/FY97	ANNISTON ARMY DEPOT ANNISTON, AL	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Nov-96	Dec-97	8	447.569	YES	NO	
REMARKS:										





Simulator and Training Device Justification									
Appropriation / P-1 Line Item		Weapon System (if applicable)					Equipment Nomenclature		Date
OPA 3 CTC INST SPT		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	March 1996
Fin Plan								MA6800 NTC OSV	PE
Quantity (Each)									654715
Proc (\$000)			4.4	4.7			9.2	6.6	Total
RDT&E (\$000)	1.8								
O&S (\$000)	0.2		0.4	0.2	0.5	2.8	3.7	4.6	
									12.4

**TRAINING SYSTEM DESCRIPTION:**

THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BY MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMOS) WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC.

# Simulator and Training Device Justification (Page 2)

Appropriation / P-1 Line Item		Weapon System (if applicable)		IOC Date		Equipment Nomenclature		Date				
OPA 3 CTC INST SPT				4Q FY97		MA6600 NTC OSV		March 1996				
Training Device By Type	Site	Del. Date	Ready For Tng Date	Avg Student Thruput	Prior Years		FY 1995		FY 1996		FY 1997	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
					Each	\$000	Each	\$000	Each	\$000	Each	\$000
NTC OSV	FT IRWIN, CA	4Q FY97	4Q FY97				5	4412	8	4714		
<b>Total</b>								4412		4714		



Simulator and Training Device Justification (Page 3)										DATE		March 1996	
Training Device By Type										Weapon System (if applicable)			
OPA 3 CTC INST SPT													
Description / Justification													
MA6600 NTC OSV													
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost		
	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	
	Each		Each		Each		Each		Each		Each		
<b>HARDWARE COSTS</b>													
Device (hardware)													
ECOs	5	2250	8	3581							13	5831	
Nonrecurring		790		381								1171	
GFE													
Other (Specify)													
<b>SubTotal Hardware Costs</b>													
<b>SUPPORT COSTS</b>													
Special SE													
Interim Contractor Logis Supt													
Other (Specify) PUBS													
ENGINEERING SPT													
TESTING													
<b>SubTotal Support Costs</b>													
Software/Courseware													
<b>TOTAL COSTS</b>													

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

MA6601

OTHER PROCUREMENT /3/ Other Support Equipment

NTC RANGE DATA MEASUREMENT SYSTEM UPGRADE

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)		7.6	2.7					

## DESCRIPTION:

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. UNDER THIS PROGRAM, INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER TRAINING CENTERS TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS (AARS). THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. THE NATIONAL TRAINING CENTER (NTC) IS DESIGNED TO SUPPORT TRAINING OF THE ARMY MOUNTED WARFARE TASK FORCES. THE CTC-IS AGES II INSTRUMENTATION SYSTEM WILL PROVIDE A COMMON INTERFACE BETWEEN THE AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEMS. THIS EFFORT WILL ENHANCE NTC AARS FOR UNITS PARTICIPATING IN MILES BASED TACTICAL FORCE-ON-FORCE EXERCISES. IN ADDITION, THE INTERFACE WILL ALLOW FOR THE COLLECTION AND NEAR REAL TIME DISPLAY OF BATTLE CONTROLLING DATA FOR THE NTC EVALUATORS TO USE DURING THE TRAINING EXERCISES. THE NTC RANGE DATA MEASUREMENT SUBSYSTEM (RDMS) IS A BI-DIRECTIONAL COMMUNICATION SYSTEM THAT RELAYS EVENT DATA GENERATED BY PLAYERS ON THE BATTLEFIELD (SHOOTING, MOVEMENT, ARTILLERY BARRAGE, ETC.) BACK TO THE NTC CORE INSTRUMENTATION SYSTEM (CIS) AND ENABLES THE COLLECTION OF DATA FOR DISPLAY, ARCHIVING, AND REPLAY AS PART OF AARS. THE UPGRADE PROGRAM FOR RDMS WILL INCORPORATE THE LATEST DESIGNS IN DATA COMMUNICATIONS SYSTEMS AND WILL PROVIDE PROCUREMENT OF A REQUIRED NUMBER OF DATA CONTROL INTERFACES (DCI) FOR FULL OPERATIONAL EFFECTIVENESS. THE EFFORTS OF THE NTC RDMS WILL PROVIDE NEEDED ENHANCEMENT OF AARS, RESULTING IN MEASURABLE IMPROVEMENT IN TRAINING. OVERALL, THIS NTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON (NTC RDMS)		C. MANUFACTURER NAME (MA6601)		D. DATE March 1996	
Cost Elements	ID	FY 94		FY 95		FY 96		FY 97			
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost		
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000		
3. NTC - FT IRWIN, CA											
A. NTC RDMS DIGITAL COMMUNICATION INSTRUMENTS	A										
1) ROTARY WING DATA COMM INTERFACE DCI				195	58		3				
2) GROUND VEHICLE DCI				3,389	1,021		3				
3) DISMOUNTED TROOP DCI				1,422	305		5				
4) OBSERVER CONTROLLED UNIT DCI				1,197	137		9				
B. NTC RDMS ENGINEERING SUPPORT											
IN-HOUSE GOVERNMENT				162				159			
CONTRACTOR				300				126			
OTHER GOV'T AGENCIES				570							
C. NTC RDMS ECPs											
MINI DCI				146				2,000			
ICD MOD				213							
AAR UPGRADE											
D. NTC RDMS INTERIM CONTRACTOR											
LOGISTICS SUPPORT								411			
Total				7,594							

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996 (M/A6601)
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										(NTC RDMS)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
3A. NTC RDMS/FY95  (1) ROTARY WING DCI (2) GROUND VEHICLE DCI (3) DISMOUNTED TROOP DCI (4) OBSERVER CONTROLLER UNITS	MOTOROLA SCOTTSDALE, AZ	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Jun-95	Feb-96	58 1,021 305 137	3.367 3.319 4.661 8.737	YES	NO		
REMARKS:											



Simulator and Training Device Justification									
Appropriation / P-1 Line Item				Date				March 1996	
OPA 3 CTC INST SPT				Weapon System (if applicable)				Equipment Nomenclature	
Fin Plan	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	PE
Quantity (Each)									MA6600 NTC RDMS UPGRADE
Proc (\$000)	24.0	2.7							654715
RDT&E (\$000)	1.6								Total
O&S (\$000)	25.8	10.6	12.5	10.0	10.0	10.0	10.0	10.0	
									26.7
									1.6
									98.9

**TRAINING SYSTEM DESCRIPTION:**

NATIONAL TRAINING CENTER - RANGE DATA MEASUREMENT SYSTEM UPGRADE (NTC-RDMS).

THIS PROJECT WILL MODERNIZE THE NTC POSITION LOCATION AND EVENT RECORDING SYSTEM. THIS UPGRADE WILL EXPLOIT THE INHERENT CAPABILITIES OF NEW SYSTEMS BEING FIELDDED TO THE NTC. FURTHER, THIS EFFORT WILL INCREASE THE NUMBER OF INSTRUMENTED PLAYERS.



# Simulator and Training Device Justification (Page 3)

Simulator and Training Device Justification (Page 3)												DATE		March 1996	
Training Device By Type				Weapon System (if applicable)											
OPA 3 CTC INST SPT				MA6600 NTC RDMS UPGRADE											
Description / Justification															
MA6600 NTC RDMS UPGRADE															
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost				
	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000	Qty	Cost \$000			
HARDWARE COSTS															
Device (hardware)	1522	21350									1522	21350			
ECOs		359		2000								2359			
Nonrecurring															
GFE															
Other (Specify)															
SubTotal Hardware Costs	1522	21709		2000							1522	23709			
SUPPORT COSTS															
Special SE															
Integrated Logistics Support															
Other (Specify)		2244		411								411			
				285								2529			
SubTotal Support Costs		2244.0		696.0								2940			
Software/Courseware															
TOTAL COSTS		23953		2696								26649			



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					TRAINING DEVICES, NONSYSTEM (NA0100)				
OTHER PROCUREMENT / Other Support Equipment		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY											
COST (in millions)			78.9	73.7	82.7	47.5	78.3	80.4	96.9		
<p>DESCRIPTION: THE ARMY CONTINUES TO BUILD ON A MAJOR INITIATIVE WITH THE FY97 NON-SYSTEM TRAINING DEVICES (NSTD) PROGRAM, TO INTRODUCE REALISTIC AND EFFECTIVE SIMULATIVE TRAINING DEVICES INTO THE INDIVIDUAL AND UNIT TRAINING SETTING. THESE DEVICES BRING INTO PLAY MANY ASPECTS OF THE COMBAT ENVIRONMENT (SMOKE, NOISE, CONFUSION, STRESS, ETC.), WHICH PROVIDE OUR SOLDIER THE VALUABLE EXPERIENCE OF BATTLEFIELD CONDITIONS IN A TRAINING ENVIRONMENT. THIS EFFORT INCLUDES THE ACQUISITION OF TRAINING SYSTEMS FOR MANEUVER SITUATION TARGET ENGAGEMENT SIMULATORS AND GAMING SIMULATIONS. DEVICES AND SIMULATIONS ARE BEING FIELDIED TO MINIMUM RESOURCE CONSUMPTION WHICH WILL EFFECT A DIRECT COST REDUCTION THROUGH CONSERVATION OF ENERGY AND AMMUNITION. THE REDUCTION OF AVAILABLE REAL ESTATE (RANGES AND MANEUVER AREAS) FOR TRAINING BEING EXPERIENCED BY BOTH ACTIVE AND RESERVE COMPONENT UNITS NECESSITATES THE INCREASED USE OF DEVICES AND SIMULATIONS. THE DEVICES AND SIMULATIONS ACQUIRED UNDER THE NSTD PROGRAM ARE ESSENTIAL FOR THE ARMY TO ACHIEVE THE GOAL OF INCREASING TRAINING EFFECTIVENESS AND SUSTAINING COMBAT READINESS IN A CONSTRAINED TRAINING ENVIRONMENT.</p> <p>JUSTIFICATION: THE FY97 NSTD PROGRAM WILL PROVIDE FOR THE CONTINUATION OF THE REMOTE TARGET SYSTEMS (RETS), GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING (GUARDFIST I), THE SIMULATED AREA WEAPONS EFFECTS SIMULATOR-RADIO FREQUENCY (SAWE-RF), THE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000), CORPS BATTLE SIMULATION (CBS), AND THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY SYSTEM (TWGSS/PGS). COST AND TRAINING EFFECTIVENESS ANALYSES ARE PERFORMED ON PROPOSED PROJECTS RESULTING IN ONLY THOSE PROGRAMS DEMONSTRATING HIGH POTENTIAL PAYOFFS BEING PURSUED. SIMULATORS PROCURED UNDER THIS LINE ARE EITHER THE RESULT OF A DEVELOPMENT EFFORT OR ARE THE PURCHASE OF A NON-DEVELOPMENTAL ITEM.</p>											

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON TRAINING DEVICES, NONSYSTEM (NA0100)				C. MANUFACTURER NAME		D. DATE March 1996	
Cost Elements	ID CD	FY 94			FY 95			FY 96			FY 97			
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
NA0101-NSTD MANEUVER/CLOSE COMBAT MILES 2000 Air Ground Engagement System II GUARDFIST I TWGSS/PGS	A			46706 25161 2692 7205 11648			49977 803 16000 8599 24575			55335 36452 6314 12569				
NA0103-NSTD COMMAND & CONTROL Brigade/Battalion Battle Simulation JANUS Corps Battle Simulation Corps Battle Simulation - Workstations Corps Battle Simulation - Microvax Corps Battle Simulation - Main Frame Strg CBS/TACSIM/JAV/JSTARS CBS/TACSIM Comm Backside Terminal CBS/TACSIM Comm Support Processor CBS/TACSIM Computer Processor Unit STOWE/Prairie Warrior	A			5006 1715 520 426  145  2200			1858  1002  856			2150  500  1650				
NA0105-NSTD RANGES AND TARGETS Remote Target System (RETS) Engagement Skills Trainer	A			10621 9621 1000			8732 8732			9000 9000				
NA0106-NSTD FIRE SUPPORT/AIR DEFENSE SAWE-RF GUARDFIST II FIREFIGHTING  Reprogramming to MA6600	A			16600 11492 5108  78933			10960 4184 2276 4500  2161  73688			16239 16239    82724				
TOTAL														

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					March 1996			
OTHER PROCUREMENT / OTHER SUPPORT EQUIPMENT		MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) (NA0101)								
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY										
COST (in millions)		25.2	0.8	36.5	33.8	36.5	45.6	57.9		
<p>DESCRIPTION:</p> <p>THE MILES 2000 SYSTEM PROVIDES REAL-TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINING IN A FORCE-ON-FORCE TRAINING SCENARIO. MILES 2000 IS A REPLACEMENT OF ALL DIRECT-FIRE "BASIC" MILES DEVICES CURRENTLY FIELDIED. MILES ALLOWS THE ARMY TO TRAIN AS A COMBINED ARMS COMBAT TEAM WITH REALISTIC CASUALTY ASSESSMENT.</p> <p>MILES 2000 IS AN ENHANCEMENT OF BASIC MILES WHICH PROVIDES THE FOLLOWING CAPABILITIES:</p> <p>8 ASPECT ANGLES TO ACCOUNT FOR SIDE, FLANK, CORNER AND REAR SHOTS. EACH ASPECT ANGLE WILL HAVE ITS OWN ASSOCIATED PROBABILITY OF KILL(PK). INCREASED PROGRAMMABILITY OF WEAPON CHARACTERISTICS, PROBABILITY OF KILL, RANGES, AND BASIC WEAPON AMMUNITION LOADS.</p> <p>EVENT RECORDING AND DISPLAY.</p> <p>DISCRETE PLAYER ID FOR ALL PARTICIPANTS. THIS WILL ENHANCE TRAINING IN TERMS OF AFTER-ACTION REVIEW, AND WILL AID IN IDENTIFYING TRAINING AGAINST</p> <p>FRATRICIDE.</p> <p>REPLICATION OF ALL WEAPON CAPABILITIES AND VULNERABILITIES THROUGH LASER SIMULATION OF WEAPON FIRING EFFECTS, AND THROUGH PROGRAMMED SIMULATION OF VULNERABILITIES.</p> <p>ENHANCED AUDIO-VISUAL CUEING EFFECTS TO REPLICATE BATTLEFIELD WEAPON EFFECTS.</p> <p>JUSTIFICATION:</p> <p>MILES 2000 FORCE-ON-FORCE TRAINING IS CENTRAL TO THE OVERALL STRATEGY FOR TRAINING UNITS IN LINE TACTICAL ENGAGEMENTS. MILES 2000 SUPPORTS THE ARMY'S TRAINING STRATEGY WITH FORCE-ON-FORCE TRAINING AT HOME STATION. BASIC MILES IS CURRENTLY OBSOLETE TECHNICALLY AND IS UNECONOMICAL TO REPAIR AND SUSTAIN. THE LIMITED NUMBER OF MILES 2000 DEVICES BOUGHT IN FY95 WILL BE COMPLETELY TESTED AND PRODUCTION QUALIFIED PRIOR TO AWARD OF FY97 PRODUCTION OPTION. FULL RATE PRODUCTION DEVICES WILL BE FIELDIED AS BATTALION SETS AND WILL CONTINUE FIELDING UNTIL MILES 2000 COMPLETELY REPLACES EXISTING MILES IN THE FIELD.</p>										

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON (MILES 2000 )				C. MANUFACTURER NAME				D. DATE March 1996	
ID	CD	OPA Cost Elements	FY 94		FY 95		FY 96		FY 97		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each						
1. MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)																
A. M16A2 RIFLE																
B. M24 SNIPER RIFLE																
C. M249 SQUAD AUTOMATIC WEAPON (SAW)																
D. AT-4 WEAPON																
E. TUBE-LAUNCHED OPTICALLY-TRACKED WIRE-GUIDED (TOW) WEAPON SYSTEM																
F. M60 MACHINE GUN																
G. M2 MACHINE GUN																
H. M113 ARMORED PERSONNEL CARRIER																
I. M2/M3 FIGHTING VEHICLE																
J. M1A1 TANK																
K. M1A2 TANK																
L. INDEPENDENT TARGET SYSTEM																
M. CONTROLLER DEVICE																
N. SMALL ARMS ALIGNMENT																
O. MAIN GUN SIGNATURE SIMULATOR (MGSS)																
P. DIRECT/INDIRECT FIRE CUE (DIFCUE)																
Q. TECHNICAL DATA																
R. TEST SUPPORT																
S. INTERIM CONTRACTOR LOGISTICS																
T. ENGINEERING CHANGES																
U. CONTRACTOR ENGINEERING SUPPORT																
V. OTHER GOVERNMENT AGENCIES SUPPORT (TECOM)																
W. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT																
TOTAL																

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT										(NA0101)
C. P-1 ITEM NOMENCLATURE										
MILES INTEGRATED LASER ENGAGEMENT SYSTEM (MILES 2000)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. MILES 2000										
A. M16A2 RIFLE/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	200	8.165	YES	NO	
A. M16A2 RIFLE/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	6,600	1.050	YES	NO	
B. M24 SNIPER RIFLE/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	10	46.050	YES	NO	
B. M24 SNIPER RIFLE/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	200	1.024	YES	NO	
C. M249 SAW/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	45	21.404	YES	NO	
C. M249 SAW/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	501	1.110	YES	NO	
D. AT-4 WEAPON/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	30	44.001	YES	NO	
D. AT-4 WEAPON/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	700	4.072	YES	NO	
E. TOW WEAPON SYSTEM/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	10	238.092	YES	NO	
E. TOW WEAPON SYSTEM/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	40	11.101	YES	NO	
F. M60 MACHINE GUN/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	25	25.450	YES	NO	
F. M60 MACHINE GUN/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	101	1.376	YES	NO	
G. M2 MACHINE GUN/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	25	25.210	YES	NO	
G. M2 MACHINE GUN/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	202	1.220	YES	NO	
H. M113 APC/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	10	132.432	YES	NO	
H. M113 APC/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	300	5.638	YES	NO	
REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY										(NA0101)	
OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT										C. P-1 ITEM NOMENCLATURE	
MILES INTEGRATED LASER ENGAGEMENT SYSTEM (MILES 2000)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES WIA	
I. M2/M3 FIGHTING VEHICLE/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	25	176.694	YES	NO		
I. M2/M3 FIGHTING VEHICLE/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	650	10.292	YES	NO		
J. M1A1 TANK/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	25	105.910	YES	NO		
J. M1A1 TANK/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	600	6.687	YES	NO		
K. M1A2 TANK/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	2	105.910	YES	NO		
K. M1A2 TANK/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	101	9.045	YES	NO		
L. INDEPENDENT TARGET SYSTEM/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	30	44.209	YES	NO		
L. INDEPENDENT TARGET SYSTEM/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	2,000	2.374	YES	NO		
M. CONTROLLER DEVICE/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	20	32.407	YES	NO		
M. CONTROLLER DEVICE/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	320	1.444	YES	NO		
N. SMALL ARMS ALIGNMENT/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	2	949.500	YES	NO		
N. SMALL ARMS ALIGNMENT/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	120	4.563	YES	NO		
O. MGSS/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	10	92.820	YES	NO		
O. MGSS/FY97	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	600	4.140	YES	NO		
P. DIFCUE/FY95	CUBIC SAN DIEGO, CA	C/FFP	NAWC, ORLANDO, FL	May-95	Sep-96	10	95.631	YES	NO		
P. DIFCUE/FY95	CUBIC SAN DIEGO, CA	OPTION	NAWC, ORLANDO, FL	Nov-96	Jan-97	133	4.009	YES	NO		
REMARKS:											





**P-1 ÍTEM NOMENCLATURE**

(MILES 2000 )

DATE \_\_\_\_\_

March 1996

[illegible]

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE (MILES 2000 )										DATE March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
M F R	NAME / LOCATION	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 95												Fiscal Year 96																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							Calendar Year 95						Calendar Year 96						Calendar Year 96						Calendar Year 96																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
							O N D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1M		95	A	20	5	15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</



FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										(MILES 2000 )										DATE										March 1996																																																											
COST ELEMENTS										M F R										FY										S E R V										PROC QTY Each										ACCEP. PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										O N D E A J F M A P R Y N L										C O T V C N B R										J J									



Simulator and Training Device Justification									
Appropriation / P-1 Line Item		Weapon System (if applicable)					Equipment Nomenclature		Date
OPA 3 TRAINING DEVICES, NON-SYSTEM							NA0101 MILES 2000		March 1996
									PE
									654715
Fin Plan	Prior Years	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	Total	
Quantity (Each)									
Proc (\$000)	25.2	0.8	33.8	36.5	45.6	57.9	37.6	273.9	
RDT&E (\$000)	1.0	0.9	3.0	3.0	5.0	5.0	5.0	22.9	
O&S (\$000)			21.3	21.3	21.3	21.3	21.3	106.5	

TRAINING SYSTEM DESCRIPTION:

REPLACEMENT ITEMS FOR CURRENT MILES DEVICES WHICH ARE BECOMING UNSUPPORTABLE AND UNRELIABLE DUE TO AGE. MILES IS A LASER-BASED ENGAGEMENT TRAINING SYSTEM WHICH ENCOMPASSES MAN-WORN, CREW-SERVED AND COMBAT VEHICLE SYSTEMS. PROJECTED INITIAL OPERATIONAL CAPABILITY (IOC) IS 4TH QUARTER FY96. REPLACEMENT ITEMS WILL PROVIDE LOWER LIFE CYCLE COSTS, LONGER BATTERY LIFE, PLAYER ID AND OTHER ENHANCEMENTS NECESSARY FOR REAL-TIME CASUALTY EFFECTS FOR TACTICAL ENGAGEMENT TRAINING IN A FORCE-ON-FORCE TRAINING SCENARIO.



# Simulator and Training Device Justification (Page 3)

Simulator and Training Device Justification (Page 3)												
Training Device By Type				DATE				March 1996				
OPA 3 NSTD				Weapon System (if applicable)								
Description / Justification												
NA0101 MILES 2000												
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000
HARDWARE COSTS												
Device (hardware)	479	22382			13168	33452					13647	55834
ECOs						1004						1004
Nonrecurring												
GFE												
Other (Specify)												
SubTotal Hardware Costs	479	22382			13168	34456					13647	56838
SUPPORT COSTS												
Special SE												
Integrated Logistics Support		2666				1276						1276
Other (Specify) TECH DATA												2666
ENG SPT		113		803		720						1636
SubTotal Support Costs		2779	0	803	0	1996						5578
Software/Courseware												
TOTAL COSTS		25161		803		36452						62416



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT /3/OTHER SUPPORT EQUIPMENT		AIR GROUND ENGAGEMENT SYSTEM (AGES II) (NA0101)						
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)		2.7	16.0					

DESCRIPTION:

AGES II EXPANDS THE CURRENT MULTIPLE INTEGRATED ENGAGEMENT SYSTEM (MILES) BY INCORPORATING MILES TRAINING DEVICES FOR THE AH-64, AH-64A+, OH-58D, OH-58D WARRIOR, CH-47D, UH-60A, UH-60L AVIATION HELICOPTERS AND THE FIELD ARTILLERY GROUND/VEHICLE LASER LOCATOR DESIGNATOR (GVLDD), REFERRED TO AS THE HELFIRE GROUND SUPPORT SYSTEM (HGSS). THE TRAINING DEVICES PROVIDE INTEGRATED AND REMOVABLE COMPONENTS FOR EYE SAFE LASER OPERATIONS TO ACCURATELY SIMULATE THE VULNERABILITY CHARACTERISTICS, WEAPON CHARACTERISTICS AND WEAPONS EFFECTS OF THE PLATFORM BEING SIMULATED. THE AGES II TRAINING DEVICES PROVIDE TRANSPARENT OPERATION TO THE CREW(S) IN EMPLOYING, OPERATING AND ENGAGING WITH THEIR WEAPON SYSTEMS USING THE ONBOARD TACTICAL WEAPON SYSTEMS WITH EYE SAFE LASERS TO SIMULATE LIVE ORDNANCE. AGES II SYSTEM FEATURES INCLUDE: EYE SAFE RANGE FINDING OPERATIONS OUT TO 10 KILOMETERS, HELFIRE SIMULATION OUT TO 8 KILOMETERS, 30 MILLIMETER CANNON SIMULATION OUT TO 3 KILOMETERS, AND HYDRA 70 ROCKET SIMULATION (DIRECT FIRE ONLY) OUT TO 6 KILOMETERS USING ALL TACTICAL MODES OF WEAPON EMPLOYMENT. AGES II IS A TRAINING SYSTEM THAT CAN BE USED FOR INDIVIDUAL, CREW, COLLECTIVE AND FORCE-ON-FORCE TRAINING. THE SIMULATIONS SIGNIFICANTLY ENHANCE THE SOLDIER'S/UNIT'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS SINCE THE PROPER WEAPON EMPLOYMENT, ENGAGEMENT TECHNIQUES AND WEAPON SYSTEM SWITCHING SKILLS ARE PRONE TO DECAY OVER TIME. THE AGES II DEVICES ALLOW THE FLIGHT AND GROUND CREWS TO CONDUCT SIMULATED COMBAT OPERATIONS ALLOWING EVALUATION OF CRITICAL TASKS AT HOME STATION AND THE COMBAT TRAINING CENTERS.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON (AGES II )				C. MANUFACTURER NAME				D. DATE March 1996	
OPA Cost Elements	ID	FY 94			FY 95			FY 96			FY 97				
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
2. AGES II	A														
A. (1) AH-64A HARDWARE															
(2) AH-64A AIBS KITS															
B. FIRST ARTICLE TEST (FY90 CONTRACT)					371										
C. ECP FOR REMOTE RESET/RESURRECT ECP FOR FIRE CONTROLLER COMPUTER															
D. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT							221								
E. INTERIM CONTRACTOR LOGISTIC SPT							1,694								
F. T&M CONTRACTOR SUPPORT							106								
G. AH-64A INDEP OP TEST & EVAL							300								
TOTAL							2692								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT										C. P-1 ITEM NOMENCLATURE
AGES II										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
2. AGES II										
A. (1) AH-64A/FY96	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-96	Jul-97	62	208.710	YES	NO	
(2) AH-64A AIBS KITS/FY96	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-96	Dec-96	30	25.000	YES	NO	
H. OH-58D/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Sep-90	May-95	7	387.329	YES	NO	
I. UH-60/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Sep-90	May-95	228	55.143	YES	NO	
J. CH-47/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Sep-90	Jun-95	28	66.706	YES	NO	
K. HGSS/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Sep-90	Sep-95	260	44.135	YES	NO	
L. CONTROLLER DEV/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Sep-90	May-95	150	11.682	YES	NO	
M. AH-64A/FY90	LORAL POMONA, CA	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Sep-90	Jul-95	30	345.222	YES	NO	
REMARKS: 2A CONTRACT AWARD DELAYED DUE TO AH-64A MODERNIZATION PROGRAM CONFIGURATION CHANGES. AIRCRAFT BASELINE HAS NOW BEEN ESTABLISHED.										
U.S. ARMY AVIATION CENTER DIRECTION TO INCLUDE CRITICAL AGES II ENHANCEMENTS WITHIN EXISTING FUNDING RESULTED IN THE PROCUREMENT OF FEWER AH 64 AGES II SYSTEMS, WITH CONSEQUENT HIGHER UNIT COST.										





Simulator and Training Device Justification										Date
Appropriation / P-1 Line Item		Weapon System (if applicable)				Equipment Nomenclature				PE
OPA 3 TRAINING DEVICES, NON-SYSTEM						NA0101 AGES II				654715
Fin Plan	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	Total	
Quantity (Each)										
Proc (\$000)	65.9	16.0								81.9
RDT&E (\$000)	11.3									11.3
O&S (\$000)		4.3	4.3	4.3	4.3	4.3	4.3	4.3		30.1

**TRAINING SYSTEM DESCRIPTION:**

AGES II EXPANDS THE CURRENT MULTIPLE INTEGRATED ENGAGEMENT SYSTEM (MILES) BY INCORPORATING MILES TRAINING DEVICES FOR THE AH-64, AH-64A+, OH-58D OH-58D WARRIOR, CH-47D, UH-60A, UH-60L AVIATION HELICOPTERS AND THE FIELD ARTILLERY GROUND/VEHICLE LASER LOCATOR DESIGNATOR (G/VLLD), REFERRED TO AS THE HELLFIRE GROUND SUPPORT SYSTEM (HGSS). THE TRAINING DEVICES PROVIDE INTEGRATED AND REMOVABLE COMPONENTS FOR EYE SAFE LASER OPERATIONS TO ACCURATELY SIMULATE THE VULNERABILITY CHARACTERISTICS, WEAPONS CHARACTERISTICS AND WEAPONS EFFECTS OF THE PLATFORM BEING SIMULATED. THE AGES II TRAINING DEVICES PROVIDE TRANSPARENT OPERATION TO THE CREW(S) IN EMPLOYING, OPERATING, AND ENGAGING WITH THEIR WEAPON SYSTEMS USING THE ONBOARD TACTICAL WEAPON SYSTEM WITH EYE SAFE LASERS TO SIMULATE LIVE ORDNANCE. AGES II SYSTEM FEATURES INCLUDE: EYE SAFE LASER RANGE FINDING, EYE SAFE DESIGNATION (FOR LASER GUIDED MUNITIONS - HELLFIRE AND COPPERHEAD), INTERFACES TO THE FIRE CONTROL COMPUTER (FCC), 1553 BUS, NAVIGATION SYSTEM AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE), EVENT RECORDING FOR AFTER ACTION REVIEWS, BUILT IN TEST AND VOICE MESSAGES TO THE CREW. WEAPON SYSTEMS SIMULATED INCLUDE: EYE SAFE RANGE FINDING OPERATIONS OUT TO 10 KILOMETERS, HELLFIRE SIMULATION OUT TO 8 KILOMETERS, 30 MILLIMETERS CANNON SIMULATION OUT TO 3 KILOMETERS, AND HYDRA 70 ROCKET SIMULATION (DIRECT FIRE ONLY) OUT TO 6 KILOMETERS USING ALL TACTICAL MODES OF WEAPON EMPLOYMENT. AGES II IS A TRAINING SYSTEM THAT CAN BE USED FOR INDIVIDUAL, CREW COLLECTIVE AND FORCE-ON-FORCE TRAINING. THE SIMULATIONS SIGNIFICANTLY ENHANCE THE SOLDIERS/UNITS ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS SINCE THE PROPER WEAPON EMPLOYMENT, ENGAGEMENT TECHNIQUES AND WEAPON SYSTEM SWITCHOVER SKILLS ARE PRONE TO DECAY OVER TIME. THE AGES II DEVICES ALLOW THE FLIGHT AND GROUND CREWS TO CONDUCT SIMULATED COMBAT OPERATIONS ALLOWING EVALUATION OF CRITICAL TASKS AT HOME STATION AND THE COMBAT TRAINING CENTERS.

## Simulator and Training Device Justification (Page 2)

Date										March 1996		
Appropriation / P-1 Line Item		Weapon System (if applicable)			IOC Date		Equipment Nomenclature			PE		
OPA 3 NON-SYSTEM TRAINING DEVICE					3Q FY95		NA0101 AGES II			654715		
Training Device By Type	Site	Del. Date	Ready For Tng Date	Avg Student Thruput	Prior Years		FY 1995		FY 1996		FY 1997	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
					Each	\$000	Each	\$000	Each	\$000	Each	\$000
AIR GROUND ENGAGEMENT SYSTEM II	ARMY WIDE	3QFY95	3QFY95	N/A	703	65897	62	16000				
<b>Total</b>						65897		16000				



Simulator and Training Device Justification (Page 3)										DATE		March 1996	
Training Device By Type				Weapon System (if applicable)									
OPA 3 NON-SYSTEM TRAINING DEVICE													
Description / Justification													
NA0101 AGES II													
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	
HARDWARE COSTS													
Device (hardware)	703	55185	62	12940							765	68125	
ECOs		5492		863								6355	
Nonrecurring													
GFE													
Other (Specify) AIBS KITS	30			750							30	750	
SubTotal Hardware Costs	733	60677	62	14553							795	75230	
SUPPORT COSTS													
Special SE													
Integrated Logistics Support		1801		905								2706	
Other (Specify) FAT		390										390	
Testing Documentation		2402		100								2502	
Engineer Support		627		442								1069	
SubTotal Support Costs	0	5220	0	1447								6667	
Software/Courseware													
TOTAL COSTS		65897		16000								81897	

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								(NAU101)	
OTHER PROCUREMENT /3/OTHER SUPPORT EQUIPMENT		GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE SIMULATION TRNG - ARMOR (GUARDFIST I)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY											
COST (in millions)		7.2	8.6								

DESCRIPTION:

GUARDFIST I CONSISTS OF INTERACTIVE SCENARIOS VIEWED THROUGH VISION BLOCKS FOR THE DRIVER, THE PERISCOPE/TELESCOPE FOR THE GUNNER, AND COMMANDER'S WEAPON STATION (UNITY WINDOW)/GUNNER'S PRIMARY SITE EXTENSION. A SERIES OF TARGETS, HAVING FREEDOM OF MOVEMENT, WILL BE INTRODUCED BY A SCENARIO CONTROLLER. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND INSTITUTIONAL TRAINING EXERCISES.

JUSTIFICATION:

THERE EXISTS IN THE ARMY NATIONAL GUARD (ARNG) AN IMMEDIATE NEED TO IMPROVE THE TRAINING OPPORTUNITY/PROFICIENCY OF ITS M1 ARMOR CREWMEN. THESE ARMOR CREWMEN NEED A REALISTIC, STRESS-FILLED SIMULATED COMBAT TRAINING DEVICE AVAILABLE AT THEIR LOCAL ARMORY THAT CAN PROVIDE THEM WITH A SERIES OF RELATIVE, INTERACTIVE BATTLEFIELD SCENARIOS FOR TANK GUNNERY, DRIVING, AND TACTICAL EXERCISES. THE DEVICE WILL BE APPENDED TO A TANK IN ORDER TO MAXIMIZE REALISTIC TACTICAL SENSATIONS AND BE DESIGNED TO ALLOW EACH CREW MEMBER TO ATTAIN AND SUSTAIN THE SKILLS REQUIRED BY HIS DUTY POSITION. THE GUARDFIST I DEVICE WILL RESULT IN INCREASED CREW GUNNERY/TACTICAL PROFICIENCY AT FAR LESS COST FOR AMMUNITION, FUEL, TRAINING AREAS, AND MAINTENANCE AVOIDANCE THAN A STRATEGY WITHOUT THIS DEVICE. FY97 CONTINUES THE PRODUCTION OF THE GUARDFIST I PROGRAM, AND THROUGH FY97 125 DEVICES WILL HAVE BEEN PROCURED OF THE APPROVED TOTAL REQUIREMENT OF 261 SYSTEMS.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / OTHER SUPPORT EQUIPMENT				B. WEAPON (GUARDFIST I)				C. MANUFACTURER NAME				D. DATE March 1996			
ID	CD	FY 94				FY 95				FY 96				FY 97			
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000
3. GUARDFIST I	A																
A. HARDWARE						6,374	23			7,383	37		200	5,759	30		192
B. TRANSIT CASES						168	442			239	629		380	194	510		380
C. PRODUCTION QUALIFICATION TEST																	
D. CONTRACTOR ENGINEERING SUPPORT						114											
E. CONTRACTOR TEST SUPPORT						87											
F. ADA SOFTWARE MAINTENANCE SUPPORT										390				190			
G. INTERIM CONTRACTOR LOGISTICS SUPPORT						141				350							
H. ECPS						201				122				61			
I. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT						78				90				68			
J. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT						42				25				42			
TOTAL						7205				8599				6314			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
C. P-1 ITEM NOMENCLATURE											
GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE SIMULATION TRAINING - ARMOR (GUARDFIST I)											
OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT											
B. APPROPRIATION / BUDGET ACTIVITY	LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
	3A. GUARDFIST I/FY95	IND DATA LINK, SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Jun-95	Dec-95	23	277.142	YES	NO	
	3A. GUARDFIST I/FY96	IND DATA LINK, SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-96	Aug-96	37	199.542	YES	NO	
	3A. GUARDFIST I/FY97	IND DATA LINK, SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-96	Apr-97	30	191.964	YES	NO	
	3B. TRANSIT CASES/FY95	IND DATA LINK, SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Jun-95	Dec-95	442	380.000	YES	NO	
	3B. TRANSIT CASES/FY96	IND DATA LINK, SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-96	Aug-96	629	380.000	YES	NO	
	3B. TRANSIT CASES/FY97	IND DATA LINK, SAN DIEGO, CA	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-96	Apr-97	510	380.000	YES	NO	
REMARKS: FY96 INCREASE IN UNIT COST DUE TO REDUCTION IN QUANTITY.											





Simulator and Training Device Justification										Date	March 1996
Appropriation / P-1 Line Item			Weapon System (if applicable)					Equipment Nomenclature		PE	
OPA 3 TRAINING DEVICES, NON-SYSTEM								NA0101 GUARDFIST I		654715	
Fin Plan	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	Total		
Quantity (Each)											
Proc (\$000)	21.1	8.6	6.3							36.0	
RDT&E (\$000)											
O&S (\$000)	0.1	0.6	0.8	0.7	0.8	0.7	0.7	0.7		5.1	

**TRAINING SYSTEM DESCRIPTION:**

GUARDFIST I WILL CONSIST OF INTERACTIVE SCENARIOS VIEWED THROUGH VISION BLOCKS FOR THE DRIVER, PERISCOPE/TELESCOPE FOR THE GUNNER, AND COMMANDERS CWS (UTILITY WINDOW)/GPSE. A SERIES OF TARGETS HAVING FREEDOM OF MOVEMENT WILL BE INTRODUCED BY A SCENARIO CONTROLLER. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND INSTITUTIONAL TRAINING EXERCISES.

THERE EXISTS IN THE ARMY NATIONAL GUARD (ARNG) AN IMMEDIATE NEED TO IMPROVE THE TRAINING OPPORTUNITY/PROFICIENCY OF ITS M1 ARMOR CREWMEN. THESE CREWMEN NEED A REALISTIC, STRESS-FILLED SIMULATED COMBAT TRAINING DEVICE AVAILABLE AT THEIR LOCAL ARMORY THAT CAN PROVIDE A SERIES OF RELATIVE, INTERACTIVE BATTLEFIELD SCENARIOS FOR TANK GUNNERY, DRIVING AND TACTICAL EXERCISES. THE DEVICE SHOULD BE APPENDED TO A TANK IN ORDER TO MAXIMIZE REALISTIC TACTICAL SENSATIONS AND TO ALLOW EACH CREW MEMBER TO ATTAIN AND SUSTAIN THE SKILLS REQUIRED BY HIS DUTY POSITION. THE DEVICE SHOULD TRAIN AND EVALUATE INDIVIDUAL AND COLLECTIVE COMBAT SKILLS FROM BASIC GUNNERY TABLES I-IV, TACTICAL TABLES A-C AND INTERMEDIATE GUNNERY TABLES V-VIII.

THE GUARDFIST I DEVICE WILL RESULT IN INCREASED CREW GUNNERY/TACTICAL PROFICIENCY AT FAR LESS COST FOR AMMUNITION, FUEL, TRAINING AREAS AND MAINTENANCE THAN A STRATEGY WITHOUT THE DEVICE.

Simulator and Training Device Justification (Page 2)										Date		
Appropriation / P-1 Line Item		Weapon System (if applicable)		IOC Date		Equipment Nomenclature				March 1996		
OPA 3 NSTD				4QFY95		NA0101 GUARDFIST I				654715		
Training Device By Type	Site	Del. Date	Ready For Trng Date	Avg Student Thruput	Prior Years		FY 1995		FY 1996		FY 1997	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
					Each	\$000	Each	\$000	Each	\$000	Each	\$000
GUARDFIST I	RESERVES	4QFY95	4QFY95	N/A	58	21109	37	8599	30	6314		
<b>Total</b>						21109		8599		6314		



Simulator and Training Device Justification (Page 3)										DATE		
Training Device By Type		Weapon System (if applicable)								March 1996		
OPA 3 NSTD												
Description / Justification												
NA0101 GUARDFIST I												
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000
HARDWARE COSTS												
Device (hardware)	58	18465	37	7383	30	5759					125	31607
ECOs		201		122		61						384
Nonrecurring												
GFE												
Other (Specify)	969	368	629	239	510	194					2108	801
TRANSIT CASES												
SubTotal Hardware Costs	1027	19034	666	7744	540	6014					2233	32792
SUPPORT COSTS												
Special SE												
Integrated Logistics Support		202		350								552
Other (Specify) SUPPORT		460										460
Engineering Support		933		505		300						1738
Prod Testing		480										480
SubTotal Support Costs		2075	0	855	0	300						3230
Software/Courseware												
TOTAL COSTS		21109		8599		6314						36022

# BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						DATE
OTHER PROCUREMENT / Other Support Equipment		TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY SYSTEM (TWGSS/PGS)						March 1996
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY								
COST (in millions)			11.6	24.6	12.6	3.8	14.8	10.9

(NA0101)

## DESCRIPTION:

DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL

## JUSTIFICATION:

THE TWGSS/PGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY, ACTIVE AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP BY THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. THUS, WEAPONS LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSS/PGS, WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMY RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LOCAL TRAINING AREA, MAJOR TRAINING AREA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND MAKE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSS/PGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY TRAINING CAPABILITY ANYTIME, ANYWHERE. FY97 FUNDING CONTINUES PRODUCTION OF THE TWGSS/PGS PROGRAM, AND THRU FY97 476/403 TWGSS/PGS DEVICES WILL HAVE BEEN PROCURED OF THE APPROVED TOTAL REQUIREMENT OF 1191/1042 TWGSS/PGS SYSTEMS.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON		C. MANUFACTURER NAME		D. DATE March 1996			
OPA Cost Elements		FY 95		FY 96		FY 97		FY 98					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
5. TWGSS/PGS	A												
A. TWGSS (M1/M1A1/M1A2)		6,749	120	56	11,241	202	56	5,941	112	53			
B. PGS (M2/M3)		4,751	74	64	11,777	196	60	6,336	112	57			
C. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT		41			93			68					
D. CONTRACTOR ENGINEERING SUPPORT		100			100			100					
E. PRODUCTION QUALIFICATION TESTING													
F. ECPS		7			1,364			124					
TOTAL		11,648			24,575			12,569		0			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											
B. APPROPRIATION / BUDGET ACTIVITY		DATE March 1996									
C. P-1 ITEM NOMENCLATURE											
TWGSS/PGS											
OTHER PROCUREMENT /3/OTHER SUPPORT EQUIPMENT											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
5. TWGSS/PGS											
A. TWGSS/FY95	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Mar-95	Aug-95	120	56.243	YES	NO		
B. PGS/FY95	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Mar-95	Aug-95	74	64.202	YES	NO		
A. TWGSS/FY96	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-95	Mar-96	202	55.647	YES	NO		
B. PGS/FY96	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-95	Mar-96	196	60.084	YES	NO		
A. TWGSS/FY97	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-96	Mar-97	112	53.042	YES	NO		
B. PGS/FY97	SAAB TRNG SYS SWEDEN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Oct-96	Mar-97	112	56.575	YES	NO		
REMARKS: INCREASE IN FY95 QUANTITY RESULTED FROM CURRENCY FLUCTUATION (DOLLAR TO SWEDISH KRONA) AT TIME OF EXERCISE.											
CHANGE IN PRODUCTION & UNIT PRICE RESULT FROM FAVORABLE NEGOTIATION OF ECPs.											





Simulator and Training Device Justification										Date
Appropriation / P-1 Line Item		Weapon System (if applicable)					Equipment Nomenclature			PE
OPA 3 TRAINING DEVICES, NON-SYSTEM		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	654715 Total
<b>Fin Plan</b>										
<b>Quantity</b> (Each)										0.0
<b>Proc</b> (\$000)	27.5	24.6	12.6	3.8	14.8	10.9				94.2
<b>RDT&amp;E</b> (\$000)										
<b>O&amp;S</b> (\$000)	0.2	1.2	1.5	2.2	2.8	3.1	3.1	3.1	3.1	17.1

**TRAINING SYSTEM DESCRIPTION:**

DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL SUPERIMPOSE REAL TIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN SIGHTS AND SIMULATES BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN (120MM, 105MM, 25MM 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO BIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSS/PGS CREW WILL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILE/CANT AND DEFILADE CONDITION TO DETERMINE TARGET VULNERABILITY.

TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY RELOCATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL AND ANGLE OF KILL WHEN ASSESSING TARGET HITS WITHOUT THIS SYSTEM. UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE AVAILABILITY IS LIMITED. THE TWGSS/PGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP FOR THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NONFIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. THUS, WEAPONS LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSS/PGS WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMY RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LIA, MIA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND PROVIDE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSS/PGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY CAPABILITY ANYTIME, ANYWHERE.





Simulator and Training Device Justification (Page 3)										DATE		
Training Device By Type		Weapon System (if applicable)								March 1996		
OPA 3 NSTD												
Description / Justification												
NA0101 TWGSS/PGS												
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000
HARDWARE COSTS												
Device (hardware)	257	22526	398	23018	224	12277					879	57821
ECOs		619		1364		124						2107
Nonrecurring												
GFE												
Other (Specify)												
SubTotal Hardware Costs	257	23145	398	24382	224	12401					879	59928
SUPPORT COSTS												
Special SE												
Integrated Logistics Support		1081										1081
Other (Specify)												
Center Engineer Support		712		100		100						912
Prod Testing/Support		2587										2587
In-House Engineer Support		41		93		68						202
SubTotal Support Costs		4421.0		193.0		168.0						4782
Software/Courseware												
TOTAL COSTS		27566		24575		12569						64710

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								NSTD RANGES AND TARGETS (NA0105)	
OTHER PROCUREMENT / Other Support Equipment		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		17.0	9.6	8.7	9.0	9.6	9.5	9.4	9.3		
<p>DESCRIPTION: THE REMOTE TARGET SYSTEM (RETS) CONSISTS OF RANGES THAT INCORPORATE INFANTRY AND ARMOR TARGETS, BOTH STATIONARY AND MOVING, THAT PORTRAY REALISTIC OPPOSING TARGET THREAT TO THE AMERICA SOLDIER USING SIMULATED BATTLEFIELD CONDITIONS. RETS FACILITATES TRAINING IN DETECTION, IDENTIFICATION, RAPID ENGAGEMENT AND PROPER LEADING OF MOVING TARGETS UNDER DAY/NIGHT CONDITIONS, ALL OF WHICH WILL BE REQUIRED IN A FAST MOVING WAR. WITHOUT THIS TRAINING, THE AMERICAN SOLDIER WILL BE ILL-PREPARED FOR COMBAT. THE QUANTITIES OF EACH COMPONENT ARE TAILORED TO THE RANGE CONFIGURATION OF WHICH THERE ARE CURRENTLY 14 DIFFERENT TYPES. RANGE DESIGNS PROVIDE TRAINING FOR THE BASIC AND ADVANCE RIFLE MARKSMANSHIP PROGRAMS AND COMBINED ARMS TRAINING OF M1 TANK AND BRADLEY FIGHTING VEHICLES (MS IFV/MC CFV), AERIAL GUNNERY, COBRA AND APACHE ATTACK HELICOPTER, ADA, AND VULCAN. THE RETS RANGE IS OPERATED BY AN OPERATOR-PROGRAMMER VIA A COMPUTER-CONTROLLED CONSOLE LOCATED IN THE RANGE TOWER. NOTE: TANK TARGET MECHANISM (TTM) REPLACED TARGET HOLDING MECHANISM TANK GUNNERY (THMTG).</p> <p>JUSTIFICATION: RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT. THE FY97 PROGRAM SUPPORTS THE PROCUREMENT AND IN-HOUSE SUPPORT FOR RANGE TARGETRY ON 11 RANGES, WHICH INCLUDES THE FOLLOWING: TWO ARMOR RANGES WITHIN FORSCOM, FOUR INFANTRY RANGES WITHIN FORSCOM, FOUR INFANTRY RANGES WITHIN U.S. ARMY RESERVE COMPONENTS, AND ONE INFANTRY RANGE WITH THE MILITARY DISTRICT OF WASHINGTON. AN ARMOR RANGE TYPICALLY CONSISTS OF A RANGE CONTROL STATION AND VARYING QUANTITIES OF INFANTRY, STATION ARMOR, MOVING ARMOR, AND SIMULATORS. AN INFANTRY RANGE TYPICALLY CONSISTS OF A RANGE CONTROL STATION AND VARYING QUANTITIES OF INFANTRY TARGETS AND SIMULATORS.</p>											

OPA Cost Analysis			A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON NSTD RANGES AND TARGETS (NA0105)			C. MANUFACTURER NAME			D. DATE March 1996		
ID	CD	Cost Elements	FY 94			FY 95			FY 96			FY 97		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Range Control Station Armor	69	2	35	69	2	35	69	2	35	69	2	35
B		Range Control Station Infantry	181	8	23	181	8	23	181	8	23	181	8	23
C		Target Holding Set	566	262	2	566	262	2	540	250	2	432	200	2
C		Target Holding Set - Option	516	349	1	516	349	1						
D		Small Arm Simulator	8	2	4	8	2	4	8	2	4	8	2	4
D		Small Arm Simulator - Option	126	70	2	126	70	2						
E		Lower Power Junction Box	512	588	1	512	588	1	305	350	1	174	200	1
E		Lower Power Junction Box - Option	175	266	1	175	266	1						
F		Moving Target Car Assembly	66	5	13	66	5	13	66	5	13	66	5	13
F		Moving Target Car Assembly - Option	216	38	6	216	38	6						
G		High Power Junction Box	5	5	1	5	5	1						
G		High Power Junction Box - Option	20	21	1	20	21	1						
H		Night Muzzle Flash Sim	60	94	1	60	94	1	16	25	1	9	15	1
H		Night Muzzle Flash Sim - Option	118	314	1	118	314	1						
I		Double Target Monitor	112	200	1	112	200	1	49	88	1	28	50	1
J		Armor Moving Target Carrier	912	10	91	912	10	91	821	9	91	456	5	91
K		Tank Target Mechanism	1026	162	6	1026	162	6	190	30	6	507	80	6
L		Target Interface Unit	82	30	3	82	30	3	57	21	3	27	10	3
M		Tank Gun Simulator	249	119	2	249	119	2	734	350	2	50	24	2
M		Tank Gun Simulator - Option	36	21	2	36	21	2						
N		3D Target	5	572		5	572		34	3420		17	1742	
O		Central Modem	9	20		9	20		2	4		2	4	
P		Remote Modem	20	5	4	20	5	4	20	5	4	20	5	4
Q		Adapter Aux Operation	27	3	9	27	3	9	27	3	9	27	3	9
R		Range Installation	1958			1958			1548			1531		
S		Storage	180			180			180			180		
T		System Tech Support	404			404			321			429		
U		Govt In-House Support	1076			1076			369			666		
V		Tech Data Pkg Maint	50			50			56			60		
W		Quality Assurance	30			30			128			144		
X		Engr Change Proposals	100			100			100			100		
Y		Comm Off the Shelf	743			743			2411			3318		
Z		Other Support							458			401		
TOTAL			9657			8690			8902					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE					
OTHER PROCUREMENT / 3 / Other Support Equipment					C. P-1 ITEM NOMENCLATURE					
NSTD RANGES AND TARGETS (NA0105)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
A. Range Control Station Armor										
FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Jun-96	2	35			
FY 96			(3)	Mar-96	Oct-96	2	35			
FY 97			(4)	Dec-96	Aug-97	2	35			
B. Range Control Station Infantry										
FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Jul-96	8	22578			
FY 96			(3)	Mar-96	Oct-96	8	22578			
FY 97			(4)	Dec-96	Aug-97	8	22578			
C. Target Holding Set										
FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Apr-96	262	2			
FY 96			(3)	Mar-96	Dec-96	250	2			
FY 97			(4)	Dec-96	Aug-97	200	2			
C. Target Holding Set - Option										
FY 95				Apr-95	May-96	349	1			
D. Small Arm Simulator										
FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Apr-96	2	4			
FY 96			(3)	Mar-96	Dec-96	2	4			
FY 97			(4)	Dec-96	Aug-97	2	4			
D. Small Arm Simulator - Option										
FY 95				Apr-95	Apr-96	70	2			
REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		March 1996			
OTHER PROCUREMENT / 3 / Other Support Equipment					C. P-1 ITEM NOMENCLATURE					
NSTD RANGES AND TARGETS (NA0105)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
E. Lower Power Junction Box FY 95 FY 96 FY 97	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL (3) (4)	Mar-95 Mar-96 Dec-96	Apr-96 Dec-96 Sep-97	588 350 200	1 1 1			
E. Lower Power Junction Box - Option FY 95				Apr-95	May-96	266	1			
F. Moving Target Car Assembly FY 95 FY 96 FY 97	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL (3) (4)	Mar-95 Mar-96 Dec-96	May-96 Dec-96 Sep-97	5 5 5	13 13 13			
F. Moving Target Car Assembly - Option FY 95				Apr-95	Jun-96	38	6			
G. High Power Junction Box FY 95	Lektron, Hatselle, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Jun-96	5	1			
G. High Power Junction Box - Option FY 95				Oct-95	Jun-96	21	1			
H. Night Muzzle Flash Sim FY 95 FY 96 FY 97	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL (3) (4)	Mar-95 Mar-96 Dec-96	Dec-95 Dec-96 Sep-97	94 25 15	1 1 1			
REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	March 1998	
B. APPROPRIATION / BUDGET ACTIVITY											C. P-1 ITEM NOMENCLATURE		
OTHER PROCUREMENT / 3 / Other Support Equipment											NSTD RANGES AND TARGETS (NA0105)		
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES WIA			
H. Night Muzzle Flash Sim - Option FY 95				Apr-95	Dec-95	314							
I. Double Target Monitor FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	May-96	200	1						
FY 96			(3)	Mar-96	Jun-96	88	1						
FY 97			(4)	Dec-96	Sep-97	50	1						
J. Armor Moving Target Carrier FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Aug-96	10	91						
FY 96			(3)	Mar-96	Jan-97	9	91						
FY 97			(4)	Dec-96	Sep-97	5	91						
K. Tank Target Mechanism FY 95	Unknown	CFFP Opt Opt	ACALA, RI, IL	May-96	Sep-96	162	6						
FY 96				May-96	May-97	30	6						
FY 97				Dec-96	Sep-97	80	6						
L. Target Interfact Unit FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Aug-96	30	3						
FY 96			(3)	Mar-96	Jan-97	21	3						
FY 97			(4)	Dec-96	Sep-97	10	3						
M. Tank Gun Simulator FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Feb-96	119	2						
FY 96			(3)	Mar-96	Dec-96	350	2						
FY 97			(4)	Dec-96	Sep-97	24	2						
REMARKS:													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 3 / Other Support Equipment										NSTD RANGES AND TARGETS (NA0105)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
M. Tank Gun Simulator - Option FY 95				Apr-95	Mar-96	21		2			
N. 3D Target FY 95	Riddle, Swansea, SC	CFFP	ACALA, RI, IL	May-95	Sep-95	572					
FY 96	Unknown	CFFP		Jun-96	Feb-97	3420					
FY 97	Unknown	Opt		Dec-96	Jun-97	1742					
O. Central Modem FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Sep-95	20					
FY 96			(3)	Mar-96	Dec-96	4		1			
FY 97			(4)	Dec-96	Sep-97	4		1			
P. Remote Modem FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	Sep-95	5		4			
FY 96			(3)	Mar-96	Dec-96	5		4			
FY 97			(4)	Dec-96	Sep-97	5		4			
Q. Adapter Aux Operation FY 95	Loral, Huntsville, AL	CFFM-5	(2) ACALA, RI, IL	Mar-95	May-96	3		9			
FY 96			(3)	Mar-96	Dec-96	3		9			
FY 97			(4)	Dec-96	Sep-97	3		9			
REMARKS:											





FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										NSTD RANGES AND TARGETS (NA0105)										DATE										March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
COST ELEMENTS										D. Small Arm Simulator										D. Small Arm Simulator - Option										E. Lower Power Junction Box										E. Lower Power Junction Box - Option																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
M	F	R	FY	S	QTY	PROC	ACCEP.	PRIOR	BAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														



[illegible]



















BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / OTHER SUPPORT EQUIPMENT		SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) (NA0106)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY											
COST (in millions)		11.5	4.2	16.2							

DESCRIPTION:

THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC). THE SAWE-RF SYSTEM CONSISTS OF SEVERAL SUBSYSTEMS AT EACH COMBAT TRAINING CENTER (CTC), INCLUDING THE BASIC SAWE-RF SUBSYSTEM CONTROL STATION (MCS) AND SEVERAL DIFFERENT DETECTION DEVICES (VEHICLE, PLAYER, ETC). THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES II) AND WILL BE DEPLOYED IN FIELD TRAINING AT EACH CTC TO SUPPORT FORCE-ON-FORCE TRAINING. BOTH SIDES, BLUE FORCES AND OPPOSING FORCES, ARE EQUIPPED WITH THESE TRAINING DEVICES. THE ARMY REQUIRES FORCE-ON-FORCE TRAINING TO SHARPEN COLLECTIVE TASKS SKILLS. THE SAWE-RF AND MILES II PROCUREMENT PROGRAMS HAVE BEEN INTEGRATED TO SUPPORT COMBINED TACTICAL ENGAGEMENT SIMULATION AND CASUALTY ASSESSMENT INSTRUMENTATION REQUIRED TO SUSTAIN REALISTIC FORCE-ON-FORCE TRAINING EXERCISES AT THE THREE MANEUVER COMBAT TRAINING CENTERS (CTC). SOLDIER FIGHTING SKILLS ARE HONED IN A REALISTIC COMBAT ENVIRONMENT AND LEARNING IS ENHANCED BY THE EFFECT OF INSIGHTFUL AFTER ACTION REVIEWS (AAR) USING GRAPHIC AND NUMERIC DATA RECORDED BY THE SAWE/MILES II DEVICES.

JUSTIFICATION:

THE FY97 PROCUREMENT COMPLETES APPROXIMATELY 1/3 OF THE OPERATIONAL REQUIRED QUANTITIES. THIS FOLLOW-ON CONTRACT INCLUDES HARDWARE BUYS OF THE VEHICLE DETECTION DEVICES (VDD) FOR UNIT COMBAT VEHICLES AND MILES INTEGRATED TARGETS SETS (MITS) TO INSTRUMENT UNIT ADMINISTRATION/LOGISTIC VEHICLES AND FIXED TARGETS.



# BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE		March 1996	
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE SIMULATED AREA WEAPONS EFFECTS- RADIO FREQUENCY (SAWE-RF)											(NA0106)	
OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT														
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A				
1. SAWE-RF														
A. VDD/FY91	LORAL, POMONA, CA	C/FFP	NAWC, ORLANDO, FL	Sep-91	Oct-94	980	12.900	YES	NO					
A. VDD/FY92	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Oct-91	Feb-95	597	16.166	YES	NO					
A. VDD/FY97	UNKNOWN	FFP	NAWC, ORLANDO, FL	Oct-96	Feb-97	214	20.528	YES	NO					
B. MITS/FY92	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Oct-91	Dec-94	724	9.845	YES	NO					
B. MITS/FY93	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Dec-92	May-95	192	9.382	YES	NO					
B. MITS/FY94	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Jul-94	Jun-95	795	13.000	YES	NO					
B. MITS/FY97	UNKNOWN	FFP	NAWC, ORLANDO, FL	Oct-96	Feb-97	480	15.698	YES	NO					
D. PDD/FY91	LORAL, POMONA, CA	C/FFP	NAWC, ORLANDO, FL	Sep-91	Dec-94	2,408	7.648	YES	NO					
D. PDD/FY92	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Oct-91	May-95	1,558	7.664	YES	NO					
D. PDD/FY93	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Dec-92	Jul-95	914	7.251	YES	NO					
D. PDD/FY94	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Mar-94	Aug-95	1,200	9.742	YES	NO					
E. MES (AT)/FY92	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Oct-91	Nov-94	33,000	0.065	YES	NO					
F. MES(AP)/FY92	LORAL, POMONA, CA	OPTION	NAWC, ORLANDO, FL	Oct-91	Nov-94	27,000	0.065	YES	NO					
REMARKS:														







Simulator and Training Device Justification										Date
Appropriation / P-1 Line Item		Weapon System (if applicable)			Equipment Nomenclature					March 1996
OPA 3 TRAINING DEVICES, NON-SYSTEM		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	PE
Fin Plan										654715
Quantity (Each)										Total
Proc (\$000)	134.7	4.2	16.2							155.1
RDT&E (\$000)	3.1									3.1
O&S (\$000)	2.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2	11.8

**TRAINING SYSTEM DESCRIPTION:**

THE SIMULATED AREA WEAPONS EFFECT-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTCs) TO SUPPORT FORCE-ON-FORCE TRAINING.

Simulator and Training Device Justification (Page 2)													
Appropriation / P-1 Line Item		Weapon System (if applicable)				IOC Date		Equipment Nomenclature			Date		
OPA 3 NSTD						1QFY94		NA0106 SAWE-RF			March 1996		
Training Device By Type		Site	Del. Date	Ready For Trng Date	Avg Student Thruput	Prior Years		FY 1995		FY 1996		FY 1997	
						Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
						Each	\$000	Each	\$000	Each	\$000	Each	\$000
VDD/MITS/M8A1		CTC	1QFY94	1QFY94	N/A	2823	36902			214	4393		
PDD		CTC	1QFY94	1QFY94	N/A	6689	55679						
VDD/MITS/M8A1		CTC	4QFY97	4QFY97	N/A					480	7535		
OTHER PROG COSTS							41000	4184			4311		
AUDIO VISUAL CUE						1925	1152						

Simulator and Training Device Justification (Page 3)										DATE March 1996			
Training Device By Type OPA NSTD		Weapon System (if applicable)											
Description / Justification NA1016 SAWE-RF													
Financial Plan	Prior Years			FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost	
	Qty	Cost		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Each	\$000		Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000
<b>HARDWARE COSTS</b>													
Device (hardware)	11437	93733				694	11928					12131	105661
ECOs		6080			1259								7339
Nonrecurring													
GFE													
Other (Specify)													
<b>SubTotal Hardware Costs</b>	<b>11437</b>	<b>99813</b>			<b>1259</b>	<b>694</b>	<b>11928</b>					<b>12131</b>	<b>113000</b>
<b>SUPPORT COSTS</b>													
Special SE		35			1455		2322						3812
Integrated Logistics Support		34425			1470		1989						37884
Other (Specify)													
<b>SubTotal Support Costs</b>		<b>34460</b>		<b>0</b>	<b>2925</b>	<b>0</b>	<b>4311</b>						<b>41696</b>
Software/Courseware													
<b>TOTAL COSTS</b>		<b>134273</b>			<b>4184</b>		<b>16239</b>						<b>154696</b>

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Other Support Equipment		SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)	0.0	31.8	29.7	78.4	94.2	104.0	25.5	14.8			

DESCRIPTION:

CLOSE COMBAT TACTICAL TRAINER (CCTT) WILL BE A NETWORKED SYSTEM OF MANNED SIMULATORS (TANK, BRADLEY, FIST-V, HHMMWV, M113A3) SUPPORTED BY EMULATORS AND SEMI-AUTOMATED FORCES THAT PROVIDE COMBAT SUPPORT, COMBAT SERVICE SUPPORT AND BOTH FRIENDLY AND OPPOSING FORCES. IT WILL TRAIN CREW THROUGH BATTALION LEVEL COMBAT ELEMENTS OF CLOSE COMBAT UNITS OF BOTH THE RESERVE COMPONENT (RC) AND ACTIVE COMPONENT (AC) IN THEIR COLLECTIVE TASKS AS DEFINED IN THE MISSION TRAINING PLAN (MTP) FOR THOSE UNITS. THE ARMY WILL FIELD 546 SIMULATORS TO ELEVEN FIXED COMPANY LEVEL SYSTEMS AND TWENTY-ONE MOBILE PLATOON-LEVEL SYSTEMS. EACH FIXED SYSTEM WILL CONTAIN A MAXIMUM OF FORTY SIMULATOR MODULES, IS BASED ON THE LOCATIONS OF AC DIVISIONS AND REGIMENTS, AND WILL SERVICE BOTH AC AND RC UNITS. THE CLOSE COMBAT TACTICAL TRAINER (CCTT) FIXED FACILITY CONTAINS: A SIMULATION BAY, SIZED TO ACCOMMODATE FROM 27 TO 40 MANNED MODULES; AN OBSERVER CONTROLLER (OC), AND A TACTICAL OPERATIONS CENTER (TOC); FIVE (5) AFTER ACTION ROOMS (AAR); TWO (2) SEMI-AUTOMATED FORCES (SAF) ROOMS (BLUE AND RED) EACH CONTAINING FIVE (5) SAF WORKSTATIONS; MAINTENANCE CONTROL CONSOLE (MCC) ROOM; A MASTER CONSOLE (MC). THE MOBILE PLATOON SYSTEMS CONTAIN FOUR SIMULATOR MODULES IN THE TANK PLATOON VERSION AND SEVEN SIMULATOR MODULES IN THE INFANTRY/CAVALRY PLATOON VERSION. DEDICATED TO THE RESERVE COMPONENTS, THESE MOBILE SYSTEMS WILL BE BASED OUT OF ACTIVE COMPONENT INSTALLATION TRAINING SUPPORT CENTERS (TSC'S) BUT WILL TRAVEL TO RESERVE COMPONENT UNIT ARMORIES FOR TRAINING AT HOME STATION.

JUSTIFICATION:

FY 97 FUNDING IS FOR THE PRODUCTION OF MOBILE CONFIGURATIONS AND FIXED SITE ASSETS. SPECIFICALLY, FY 97 FUNDS REPRESENTS THE INITIAL PRODUCTION BUYS OF THE CCTT SYSTEM TO INCLUDE 54 MODULES FOR FIXED SITES AND 22 MODULES FOR TANK AND BRADLEY MOBILE CONFIGURATIONS. FIELDING SCHEDULES HAVE BEEN ESTABLISHED SO AS TO SUPPORT THE ACTIVE AND RESERVE COMPONENTS IN TRAINING THE TOTAL COMBINED ARMS FORCE AS A SIMULATED, FULLY INTERACTIVE REAL TIME BATTLEFIELD. THE NEED IS TO TRAIN AND SUSTAIN COLLECTIVE (CREW THROUGH BATTALION) TASKS AND SKILLS IN COMMAND AND CONTROL, COMMUNICATIONS AND MANEUVER, AND TO INTEGRATE THE FUNCTIONS OF COMBAT SUPPORT AND COMBAT SERVICE SUPPORT UNITS. THESE PRODUCTION SYSTEMS SUPPORT URGENT TRAINING REQUIREMENTS OF FORSCOM TO REDRESS LACK OF TRAINING OPPORTUNITY FOR PLATOON/COMPANY TEAM ELEMENTS.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)			C. MANUFACTURER NAME			D. DATE March 1996		
ID CD	OPA Cost Elements		FY 94			FY 95			FY 96			FY 97		
			TotalCost \$000	UnitCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	Qty Each
	CCTT													
	A. QUICKSTART MODULES					28,430		34	836	25,740	34			
	B. FIXED SITE MODULES											41,520	54	769
	C. MOBILE MODULES											32,820	22	1,492
	D. QUICKSTART/SIMNET SYSTEM INTEGRATION					142				951				
	E. PRODUCTION ENGINEERING SUPPORT SUPPORT BY STRICOM/NAWC-TSD					870				956		1,176		
	F. PRODUCTION ENGINEERING SUPPORT BY SUPPORT SERVICE CONTRACTOR					1,451				1,677		2,594		
	G. PRODUCTION ENGINEERING SUPPORT BY OTHER GOVERNMENT AGENCIES					915				375		290		
	TOTAL		0			31,808				29,699		78,400		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		March 1996			
C. P-1 ITEM NOMENCLATURE										
SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
QUICKSTART IMAGE GENERATOR COMPONENT SETS/FY 94  A. QUICKSTART MODULES FY 95 FY 96  B. FIXED SITE MODULES FY 97  C. MOBILE MODULES FY 97	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CTR ORLANDO, FL	Mar-94	Sep-95	68	104	YES*	NO	
	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CTR	Oct-94 Jan-96	Sep-95 Mar-96	34 34	836 757	YES* YES*	NO NO	
	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CTR	May-97	Jul-98	54	769	YES	YES	Jun-96
	LORAL, ORLANDO, FL	C/CPIF OPTION	NAVAL AIR WARFARE CTR	May-97	Oct-98	22	1,492	YES	YES	Jun-96
REMARKS:										
*Level III drawing package available to produce the QUICKSTART modules. Prime Item Development Specification is available for all options.										











Simulator and Training Device Justification										Date
Appropriation / P-1 Line Item		Weapon System (if applicable)				Equipment Nomenclature				PE
OTHER PROCUREMENT/SIMNET/CLOSE COMBAT TACTICAL TRAINER						CLOSE COMBAT TACTICAL TRAINER (CCTT)				654780
FIn Plan	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	Total	
Quantity (Each)	0	0	0	0	0	0	0	0	0	0
Proc (\$000)	7,100	31,808	29,699	78,400	94,173	104,029	25,487	14,787	385,483	
RDT&E (\$000)	90,100	50,293	57,985	26,713	3,033	3,095	3,082	3,058	237,359	
O&S (\$000)			415	4,801	6,566	11,194	11,040	10,760	44,776	

TRAINING SYSTEM DESCRIPTION:

Close Combat Tactical Trainer (CCTT) will be a networked system of manned simulators (Tank, Bradley, Fist-V, HHMMWV, M113A3) supported by emulators and semi-automated forces that provide CS, CSS and both friendly and opposing forces. It will train Crew through battalion level combat elements of Close Combat units of both the Reserve Component (RC) and Active Component (AC) in their collective tasks as defined in the Mission Training Plan (MTP) for those units. The Army will field 546 Simulators to eleven fixed company level systems and twenty-one Mobile Platoon-Level Systems. Each fixed system will contain a maximum of forty simulator modules, is based on the locations of AC Divisions and Regiments, and will service both AC and RC Units. The Mobile Platoon systems contain four simulator modules in the tank platoon version and seven simulator modules in the Infantry/Calvary Platoon version. Dedicated to the RC, these mobile systems will be based out of AC Installation Training Support Centers (TSC) but will travel to RC unit armories for training at home stations.

Simulator and Training Device Justification (Page 2)												Date	March 1996
Appropriation / P-1 Line Item		Weapon System (if applicable)			IOC Date		Equipment Nomenclature			PE			
OTHER PROCUREMENT/SIMNET/CLOSE COMBAT TACTICAL TRAINER							CLOSE COMBAT TACTICAL TRAINER (CCTT)						
Training Device By Type		Site	Del. Date	Ready For Trng Date	Avg Student Thruput	Prior Years		FY 1995		FY 1996		FY 1997	
						Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
						Each	\$000	Each	\$000	Each	\$000	Each	\$000
TEAM/QUICKSTART		KNOX	Aug-96	Nov-96		18	1,872	18	15,051				
TEAM/QUICKSTART		HOOD	Sep-96	Dec-96		12	1,248	12	10,035				
TEAM/QUICKSTART		BENNING	Oct-96	Jan-97		8	832	4	3,344	4	3,028		
TEAM/QUICKSTART		STEWART	Nov-96	Feb-97		8	832			8	6,056		
TEAM/QUICKSTART		GRAF	Jan-97	Apr-97		14	1,456			14	10,599		
TEAM/QUICKSTART		KOREA	Mar-97	Jun-97		8	832			8	6,057		
TEAM/ FIXED SITE		KNOX	Nov-98	Feb-99								30	23,067
TEAM/FIXED SITE		BENNING	Dec-98	Mar-99								24	18,453
TEAM/MOBILE		BENNING	Oct-99	Jan-00								4	5,967
TEAM/MOBILE		BRAGG	Nov-99	Feb-00								7	10,443
TEAM/MOBILE		MCCELLAN	Dec-99	Apr-00								7	10,443
TEAM/MOBILE		MCCELLAN	Feb-00	May-00								4	5,967
Total							7072		28430		25740		74340

Simulator and Training Device Justification (Page 3)										DATE		
Training Device By Type										March 1996		
OPA3 CCTT COLLECTIVE TEAM TRAINER										Weapon System (if applicable)		
Description / Justification												
CLOSE COMBAT TACTICAL TRAINER (CCTT)												
Financial Plan	Prior Years		FY 1995		FY 1996		FY 1997		Cost To Complete		Total Cost	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000
HARDWARE COSTS												
Device (hardware)	0	7,072	34	28,430	34	25,740	76	74,340	353	202,510	497	338,092
ECOs												
Nonrecurring												
GFE												
Other (Specify)												
SubTotal Hardware Costs	0	7,072	34	28,430	34	25,740	76	74,340	353	202,510	497	338,092
SUPPORT COSTS												
Special SE				3,378		3,959		4,060		16,200		27,597
Integrated Logistics Support										35,550		35,550
Other (Specify)												
SubTotal Support Costs	0	0	0	3,378	0	3,959	0	4,060	0	51,750	0	63,147
Software/Courseware												
TOTAL COSTS		7072		31808		29699		78400		254260		401239

# BUDGET ITEM JUSTIFICATION SHEET

BUDGET ITEM JUSTIFICATION SHEET										DATE		March 1996	
APPROPRIATION / BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE						(NA0174)			
OTHER PROCUREMENT /Other Support Equipment				FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001					
QUANTITY													
COST (in millions)				17.4	20.1	28.6	25.7	10.7					

## DESCRIPTION:

THE FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) IS A TWO-PHASED EFFORT TO PROVIDE TRAINING OF THE FIELD ARTILLERY GUNNERY TEAM. FSCATT PHASE I WILL PROVIDE INDIVIDUAL AND CREW-LEVEL SKILLS TRAINING. FSCATT PHASE II WILL BE A COLLECTIVE TRAINER THAT SIMULATES FIRE SUPPORT WITHIN THE COMBINED ARMS TACTICAL TRAINER. THE GOAL OF FSCATT PHASE I IS TO EXERCISE THE ARTILLERY GUNNERY TEAM IN REALISTIC FIRE MISSIONS WITH A REDUCTION IN EXPENDITURE OF AMMUNITION AND RELATED OPERATIONAL COSTS. FSCATT PHASE I WILL PROVIDE BATTERY-LEVEL TRAINING AND FEEDBACK IN INDIVIDUAL SKILLS, CREW DRILLS, AND PARTIAL UNIT DRILLS IN EXECUTING INDIRECT FIRE MISSIONS. FSCATT PHASE I WILL MONITOR ACTIVITIES, RECORD PERFORMANCE AND PRODUCE AFTER ACTION REVIEW REPORTS. FSCATT PHASE I WILL CONSIST OF THE FOLLOWING FIVE ELEMENTS: A SIMULATOR THAT REPLICATES AN ACTUAL M109A5 SELF-PROPELLED HOWITZER TURRET, STRAP-ON SENSORS FOR SELECTED TOWED AND SELF-PROPELLED HOWITZERS; A FIRE DIRECTION CENTER SIMULATOR; A COLLECTIVE TRAINING CONTROL TURRET, STRAP-ON SENSORS FOR SELECTED TOWED AND SELF-PROPELLED HOWITZERS; A LINKED TO FORM A NETWORK OF THREE TRAINING SUBSYSTEMS: THE HOWITZER CREW TRAINER (HCT) SUBSYSTEM (OR HOWITZER STRAP-ON TRAINER SUBSYSTEM); THE COLLECTIVE TRAINING CONTROL SUBSYSTEM (CTCS); AND THE FORWARD OBSERVER TRAINER. NOTE: THE GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINER (GUARDFIST II) PLAYS THE ROLE OF THE FORWARD OBSERVER TRAINER IN FSCATT PHASE I, BUT GUARDFIST II IS NOT A PART OF THIS PROCUREMENT. EACH FSCATT PHASE I TRAINING SUBSYSTEM WILL BE CAPABLE OF BEING CONFIGURED TO SUPPORT STAND-ALONE, INTERACTIVE, AND CLOSED-LOOP OPERATIONAL TRAINING MODES.

## JUSTIFICATION:

IN THE PAST, FIELD ARTILLERY GUNNERY TEAM TRAINING HAS BEEN CONDUCTED THROUGH THE USE OF LIVE FIRE EXERCISES WHICH LACK REALISM DUE TO SAFETY CONSTRAINTS (E.G. NO ENEMY MANEUVER, OR FIRE). THIS TRAINING IS COSTLY IN TERMS OF RANGE SUITABILITY AND AVAILABILITY, AMMUNITION EXPENDITURE AND TRAVEL RELATED POL COSTS. PROGRAM FISCAL CONSTRAINTS THROUGH FY06 MANDATE A SIGNIFICANT REDUCTION (APPROXIMATELY 30 %) OF AMMUNITION RESOURCES FOR TRAINING UNITS. REDUCED TRAINING RESOURCES AND INCREASING AMMUNITION COSTS PROHIBIT FIRING SUFFICIENT QUANTITIES OF AMMUNITION TO ATTAIN/SUSTAIN THE REQUIRED LEVEL OF FIELD ARTILLERY GUNNERY TEAM PROFICIENCY. TO COMPENSATE FOR PROJECTED REDUCTIONS IN AMMUNITION, OTHER REALISTIC AND EFFECTIVE WEAPONS TRAINING ARE REQUIRED. EFFECTIVE USE OF FSCATT WILL TRAIN THE GUNNERY TEAM TO DELIVER ACCURATE AND PREDICTED FIRES WITHOUT THE OPERATING TEMPO (OPTEMPO) AND AMMUNITION COSTS ASSOCIATED WITH LIVE FIRE AND ALSO PERMIT INTEGRATION OF FIELD ARTILLERY UNITS INTO A COMBINED ARMS BATTLEFIELD FOR COLLECTIVE TASK TRAINING.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON ( FSCATT PHASE 1 )				( NAO174 C. MANUFACTURER NAME				D. DATE March 1996	
ID	CD	FY 94			FY 95			FY 96			FY 97				
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000		
OPA Cost Elements															
FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER															
A. HOWITZER CREW TRAINER															
B. STRAP-ON M102 HOW, LIGHT TOWED															
C. STRAP-ON M119 HOW, LIGHT TOWED															
D. STRAP-ON M198 HOW, MED TOWED															
E. STRAP-ON M109A5 HOW, MED SELF-PROPELLED															
F. STRAP-ON M109A6 HOW, MED SELF-PROPELLED															
G. COLLECTIVE TRAINING CONTROL SYSTEM															
H. STRAP-ON INSTRUCTOR/OPERATOR STATION															
I. ENGINEERING SUPPORT IN-HOUSE ENGINEERING SUPPORT CONTRACTOR SUPPORT															
J. ENGINEERING CHANGES															
K. DATA/DOCUMENTATION															
L. PRODUCTION TESTING															
M. INTERIM CONTRACTOR LOGISTICS SUPPORT															
N. SITE INSTALLATION SERVICES															

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)															
B. APPROPRIATION / BUDGET ACTIVITY					DATE		March 1998								
OTHER PROCUREMENT/ 3 / Other Support Equipment					C. P-1 ITEM NOMENCLATURE										
1. FSCATT					FSCATT PHASE 1										
LINE ITEM / FISCAL YEAR					CONTRACTOR AND LOCATION		CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A
A. HOWITZER CREW TRAINER/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Jan-98	15	727,552	YES	NO	
C. STRAP-ON M119 HOW/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Jan-98	48	14,466	YES	NO	
D. STRAP-ON M198 HOW/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Jan-98	16	14,098	YES	NO	
E. STRAP-ON M109A5 HOW/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Jan-98	20	16,985	YES	NO	
F. STRAP-ON M109A6 HOW/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Jan-98	64	3,614	YES	NO	
G. COLLECTIVE TNG CONTROL SYS/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Jan-98	24	55,411	YES	NO	
H. STRAP-ON IOS/FY97					HUGHES TRAINING ARLINGTON, TX		C/PPAF	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Feb-97	Sep-98	33	20,237	YES	NO	
REMARKS:															







Simulator and Training Device Justification									
Appropriation / P-1 Line Item			Weapon System (if applicable)				Equipment Nomenclature		
OPA 3 TRAINING DEVICES, NON-SYSTEM							FSCATT/PH1		
							NA0174		
							FY 1999		
							FY 2000		
							FY 2001		
							Total		
							PE		
							654715		
<b>Fin Plan</b>	<b>Prior Years</b>	<b>FY 1995</b>	<b>FY 1996</b>	<b>FY 1997</b>	<b>FY 1998</b>	<b>FY 1999</b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>Total</b>
<b>Quantity</b> (Each)									
<b>Proc</b> (\$000)			17.4	20.1	28.6	25.7	10.7		102.5
<b>RDT&amp;E</b> (\$000)	5.8	3.9	3.9						13.6
<b>O&amp;S</b> (\$000)			0.3	2.1	2.5	2.9	2.9	2.9	13.6

**TRAINING SYSTEM DESCRIPTION:**

THE FSCATT SYSTEM (PHASE I) PROVIDES FIELD ARTILLERY BATTERIES WITH THE CAPABILITIES TO CONDUCT INTEGRATED TRAINING WITH FORWARD OBSERVERS FIRE DIRECTION CONTROLLERS, AND FIRING BATTERY PERSONNEL ON A LOCAL NETWORK. FSCATT PHASE I WILL PROVIDE INITIAL AND SUSTAINMENT TRAINING FOR THE ENTIRE GUNNERY TEAM. IT WILL INTEGRATE TACTICAL EQUIPMENT AND SIMULATED HOWITZER DEVICES IN A CLOSED LOOP NETWORK AND CREATE A BATTERY-LEVEL COMMAND AND CONTROL TACTICAL TRAINER. THE SYSTEM WILL ALSO PROVIDE ESSENTIAL PERFORMANCE MEASUREMENT DATA FOR THE FIELD ARTILLERY CREWS, WHILE ALSO PROVIDING A MAN-IN-THE-LOOP INPUT TO CLOSE COMBAT TACTICAL TRAINER.



Simulator and Training Device Justification (Page 3)										DATE		March 1996						
Training Device By Type										Weapon System (if applicable)								
OPA 3 NSTD																		
Description / Justification																		
NA0174 FSCATT/PHI																		
Financial Plan	Prior Years			FY 1995			FY 1996			FY 1997			Cost To Complete			Total Cost		
	Qty	Cost		Qty	Cost		Qty	Cost		Qty	Cost		Qty	Cost		Qty	Cost	
	Each	\$000		Each	\$000		Each	\$000		Each	\$000		Each	\$000		Each	\$000	
<b>HARDWARE COSTS</b>																		
Device (hardware)																220	14402	
ECOs																	350	
Nonrecurring																		
GFE																		
Other (Specify)																		
<b>SubTotal Hardware Costs</b>																220	14752	
<b>SUPPORT COSTS</b>																		
Special SE																		
Interim Contractor Logistic Supt																		
TESTING/ENG SPT																		
Other (Specify) DOC/SITE INSTALL																		
<b>SubTotal Support Costs</b>																	2638.0	
Software/Courseware																		
<b>TOTAL COSTS</b>																	17390	

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1998
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					RECONFIGURABLE SIMULATORS (KA6000)
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	0.0	12.2	13.8	16.5	7.8	3.9	3.2		
<p><b>DESCRIPTION:</b></p> <p>The Reconfigurable Simulator Program (RSP) provides simulators for use in the Army's Core Distributed Interactive Simulator Facilities (CDF). The RSP will leverage off overreaching architecture and procure simulators with substantially more capability than current simulators at a significant reduction in cost. These simulators will provide a wide range of functionality of aviation and ground simulator assets. The simulator upgrades will enhance the CDF capability of the Army to analyze user requirements and evaluate alternative technical approaches for satisfying those requirements. Upgrades will increase capabilities of simulator visual display systems, computer image generators, host computer processing power and network interface standards. The FY97 Procurement supports the Battle Lab Reconfigurable Simulator Initiative to provide reconfigurable simulators for the Army's Battle Laboratories. These simulators will portray a wide range of functionality and will concentrate on Ground, Air and Battle Command vehicles and systems to span all battlefield operating systems. The simulators will be fielded to the Dismounted Battle Space Battle Lab (Fort Benning, GA), Aviation Test Bed (Fort Rucker, AL) and Battle Command Battle Lab (Fort Leavenworth, KS).</p> <p><b>JUSTIFICATION:</b></p> <p>Reconfigurable Simulators and upgrades procured for the Army's Core DIS Facilities link with Battle Laboratories, Research and Development Centers, industry and academia to change the current paradigm of conducting business in the materiel acquisition process. The FY97 Procurement of Reconfigurable Simulators are essential to Army achieving objectives of Force XXI, Louisiana Maneuvers, Synthetic Theater of War (STOW), numerous Advanced Technology Demonstrations, and Advanced Warfighting Experiments. The FY97 Procurement will provide the CDF with the necessary tools to combine materiel development, training development and requirements validation at the same facilities. The simulator upgrades are required to accurately portray aviation and ground assets in the synthetic environment, with particular emphasis on the emerging virtual simulation domain, including manned simulators operating in a synthetic environment. The FY97 Reconfigurable Simulators are required to provide the Army with the ability to determine the warfighting impact of a variety of emerging systems, technologies and capabilities for the Force Projection Army.</p>										

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON RECONFIGURABLE SIMULATORS (KA6000)				C. MANUFACTURER NAME		D. DATE March 1996	
OPA			FY 94		FY 95		FY 96		FY 97					
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware														
A. Stow Suite	A											480	1	480
B. Simulator Upgrades - Ft Knox	A													
C. Simulator Upgrades - Ft Benning	A													
D. Simulator Upgrades - Ft Rucker	A													
E. Master Control Console	A													
F. Sim Upgrades - Initial Spares	A													
G. Early Entry Opns Svs Spt Reconfig Sim	B													
H. Ground Veh Reconfig Sim	B													
I. Reconfig Sim Oper DB License	A													
2. Government Engineering														
3. Testing														
Total														

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 3 / Other Support Equipment				C. P-1 ITEM NOMENCLATURE					March 1996
LINE ITEM / FISCAL YEAR		CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQD	IF YES W/A
A. Stow Suite FY 97		Lockheed-Martin - Orlando, FL	C/CPIF	Naval Air Warfare Center	Dec-96	Jul-97	1	480	Yes	No	
B. Simulator Upgrades - Ft Knox FY 96		Lockheed-Martin - Orlando, FL	DO/CPAF	Naval Air Warfare Center	Mar-96	Dec-96	4	967	Yes	No	
C. Simulator Upgrades - Ft Benning FY 96		Lockheed-Martin - Orlando, FL	DO/CPAF	Naval Air Warfare Center	Mar-96	Feb-97	4	895	Yes	No	
D. Simulator Upgrades - Ft Rucker FY 96		Lockheed-Martin - Orlando, FL	DO/CPAF	Naval Air Warfare Center	Mar-96	Apr-97	2	1286	Yes	No	
E. Master Control Console FY 96		Lockheed-Martin - Orlando, FL	DO/CPAF	Naval Air Warfare Center	Mar-96	Sep-96	3	150	Yes	No	
F. Sim Upgrades - Initial Spares FY 96		Lockheed-Martin - Orlando, FL	DO/CPAF	Naval Air Warfare Center	Mar-96	Dec-96			Yes	No	
G. Early Entry Opns Svs Spt Reconfig Sim FY 97		Hughes Training - Orlando, FL	Option	Naval Air Warfare Center	Feb-97	Oct-97	5	862	No	Yes	Feb-97
H. Ground Veh Reconfig Sim FY 97		Hughes Training - Orlando, FL	Option	Naval Air Warfare Center	Feb-97	Oct-97	9	887	No	Yes	Feb-97
I. Reconfig Sim Oper DB License FY 96		Hughes Training - Orlando, FL	Option	Naval Air Warfare Center	Feb-97	Apr-97			Yes	No	
REMARKS: Simulator upgrades will be procured from the competitively-selected advanced development simulation technology contractor who operates the Army Core Dis Facilities to be upgraded.											
Reconfigurable simulators will be procured as production options to the competitively-selected systems development contractor.											



FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										RECONFIGURABLE SIMULATORS (K48000)										DATE										March 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
COST ELEMENTS										MFR		S		PROC		ACCEP.		BAL		Calendar Year 96										Calendar Year 97										Fiscal Year 96										Fiscal Year 97										L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										F	R	E	V	QTY	Each	PRIOR	TO	DUE	AS OF																																																			OCT	1	OCT	1	OCT	O	N	D	E	C	V	T	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J	A	M	A	P	R	Y	N	L	J







**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE									
		PHYSICAL SECURITY SYSTEMS (OPA 3) (MA0780)									
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY											
COST (in millions)				6.0	7.2	6.6	8.9	8.5	8.6		
<p><b>DESCRIPTION:</b> Physical Security Systems protect high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to deprive the United States of these resources prior to armed conflict or to embarrass the Government during peace time. Program includes both Code A and B items. Physical Security Systems include the Integrated Commercial Intrusion Detection System (ICIDS), the Joint Services Interior Intrusion Detection System (J-SIDS) and the Commercial Intrusion Detection Systems (CIDS). Goal is to provide security to units, families and facilities; and to reduce the number of deployable soldiers used for security missions during mobilization and deployment.</p> <p><b>JUSTIFICATION:</b> FY 97 program funds procurement of electronic Physical Security Equipment (PSE). Provides regulatory required security measures for conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilian guards to safeguard personnel and Army assets. Funding protects personnel, facilities and equipment from terrorists and criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON).</p> <p>Transferred from OPA-2 to OPA-3 starting in FY 96.</p>											

OPA Cost Analysis				B. WEAPON PHYSICAL SECURITY SYSTEMS (OPA 3) (MA0780)				C. MANUFACTURER NAME				D. DATE March 1996			
A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				FY 94				FY 95				FY 96			
ID				TotalCost	Qty	UnitCost		TotalCost	Qty	UnitCost		TotalCost	Qty	UnitCost	
CD				\$000	Each	\$		\$000	Each	\$		\$000	Each	\$	
ICIDS															
AMG															
J-SIIDS															
CIDS															
ICIDS TOTALS															
J-SIIDS/CIDS TOTALS															
TOTAL															

Transferred from OPA-2 to OPA-3 in FY 96.

Unit cost reflect only an average cost.

The unit cost is site dependent.

Components are assembled according to individual site security requirements.

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE									
		ICIDS (MA0782)									
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY											
COST (in millions)				4.3	5.5	4.7	5.2	5.7	5.8		
<p><b>DESCRIPTION:</b> The Integrated Commercial Intrusion Detection System (ICIDS) program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, and command and control devices protecting chemical/nuclear and Special Compartmented Information Facilities, sensitive munitions, conventional Arms, Ammunition and Explosive Areas, non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. The Alarm Monitor Group (AMG), a personal computer based upgrade to the J-SIDS, provides a cost effective system meeting basic security communications, control and display capabilities for small site applications where ICIDS would be inappropriate. These components are assembled as "systems" to meet the site specific requirements of installations on the DA Distribution Plan. Goal is to provide security to units, families and facilities; and to reduce the number of deployable soldiers used for security missions during mobilization and deployment.</p> <p><b>JUSTIFICATION:</b> FY 97 program funds procurement of electronic Physical Security Equipment at Fort Campbell, KY, Fort Leavenworth, KS, and Fort Bliss, TX as currently scheduled in the DA ICIDS Distribution Plan. These funds will modernize the intrusion detection and assessment, access control, and surveillance systems by augmenting current equipment and replacing obsolete equipment with state-of-the-art electronic equipment. Funding provides regulatory security measures for conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Equipment minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilian guards to safeguard personnel and Army assets. The AMG provides a low cost alternative to the ICIDS allowing upgrades to existing J-SIDS and offering a computerized operating system significantly increasing mission efficiency.</p> <p>Transferred from OPA-2 to OPA-3 starting in FY 96.</p>											



OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON			ICIDS (MA0782)			C. MANUFACTURER NAME			D. DATE		
OPA				FY 94			FY 95			FY 96			FY 97			March 1996		
Cost Elements				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost			
				\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$			
ICIDS	Hardware		A							2,494	2	1,247,000	4,067	2	2,033,500			
	Engineering									900			532					
										3,394			4,599					
ICIDS TOTALS																		
AMG	Hardware		A							630	30	21,000	630	30	21,000			
	Engineering									248			248					
AMG TOTALS										878			878					
Transferred from OPA-2 to OPA-3 in FY 96.																		
Unit cost reflect only an average cost.																		
The unit cost is site dependent.																		
Components are assembled according to individual site security requirements.																		
TOTALS										4,272			5,477					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / 3 / Other Support Equipment										
C. P-1 ITEM NOMENCLATURE										
ICIDS (MA0782)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware (ICIDS)										
FY 96	LORAL, Reston, VA	CF/PTION	ATCOM	Jan-96	Mar-96	2	1,247,000	YES	NO	
FY 97	TBS	CF/PTION	CECOM	Dec-96	Mar-97	2	2,033,500	YES	NO	
Hardware (AMG)										
FY 96	Federal Prison Industries	SS/PTION	ATCOM	Apr-96	Sep-96	30	21,000	YES	NO	
FY 97	Federal Prison Industries	SS/PTION	ATCOM	Dec-96	May-97	30	21,000	YES	NO	
REMARKS: Unit cost reflect only an average cost. The unit cost is site dependent. Components are assembled according to individual site security requirements.										
*Federal Prison Industries, Big Springs, TX.										







FY 1996 / FY 1997 BUDGET PRODUCTION SCHEDULE										Alarm Monitor Group										March 1996									
P-1 ITEM NOMENCLATURE										DATE																			
										Fiscal Year 97										Fiscal Year 98									
										Calendar Year 97										Calendar Year 98									
										J F M A M J J A S O N D										J F M A M J J A S O N D									
										C O N T										C O N T									
										O N D										O N D									
										E A N										E A N									
										C O N										C O N									
										V C										V C									
										T										T									
										P										P									
										S										S									
										E										E									
										U										U									
										L										L									
										G										G									
										P										P									
										S										S									
										P										P									
										T										T									
										O										O									
										N										N									
										D										D									
										E										E									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										A										A									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										A										A									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									
										J										J									
										A										A									
										M										M									
										A										A									
										P										P									
										R										R									
										Y										Y									
										N										N									
										J										J									

**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OTHER PROCUREMENT / Other Support Equipment		Joint Services Interior Intrusion Detection System (J-SIIDS)							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)				0.4	0.4	0.4	0.4	0.4	0.4

**DESCRIPTION:** The J-SIIDS is an Army type classified standard interior intrusion detection system used to secure arms rooms, nuclear/chemical and conventional ammunition magazines, drug storage, automatic data processing centers, communications and financial facilities. Funding provides for initial issue based on DA prioritized distribution plan. Goal is to provide security to units, families, and facilities; and to reduce the number of deployable soldiers used for security missions during mobilization and deployment.

**JUSTIFICATION:** FY 97 program funds procurement of electronic Physical Security Equipment (PSE). These funds address the modernization of integrated PSE for intrusion detection and assessment, access control, and electronic surveillance. Provides regulatory required security measures for: nuclear reactors, conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilians guards to safeguard personnel and Army assets. Funding protects personnel, facilities and equipment from terrorist or criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON).

Transferred from OPA-2 to OPA-3 starting in FY 96



OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment			B. WEAPON J-SIIDS			C. MANUFACTURER NAME			D. DATE March 1996		
ID	CD	OPA Cost Elements	FY 94			FY 95			FY 96			FY 97		
			TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
		J-SIIDS Hardware							250	250	1,000	250	250	1,000
		Engineering Support							100			100		
TOTALS									350			350		

Transferred from OPA-2 to OPA-3 in FY 96.

Unit cost reflect only an average cost.  
The unit cost is site dependent.  
Components are assembled according to individual site security requirements.

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY

OTHER PROCUREMENT / Other

Support Equipment

P-1 ITEM NOMENCLATURE

Commercial Intrusion Detection System (CIDS)

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)			1.4	1.4	1.4	3.3	2.4	2.4

**DESCRIPTION:** When centrally managed ICIDS or J-SIDS cannot be used, MACOMs use locally purchased CIDS to secure vital resources. CIDS funds purchase of commercial intrusion detection systems hardware to meet nonstandard requirements. Funds are sent to individual posts, camps, and stations worldwide for competitive contracts, project orders, and work requests. Goal is to provide security to units, families, and facilities; and to reduce the number of deployable soldiers used for physical security missions during mobilization and deployment.

**JUSTIFICATION:** FY 97 program funds procurement of electronic Physical Security Equipment (PSE). These funds address the modernization of integrated PSE for intrusion detection and assessment, access control, and electronic surveillance. Provides regulatory required security measures for: nuclear reactors, conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilians guards to safeguard personnel and Army assets. Funding protects personnel, facilities and equipment from terrorist or criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON).

Transferred from OPA-2 to OPA-3 starting in FY 96

OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON				CIDS				C. MANUFACTURER NAME				D. DATE March 1996			
OPA Cost Elements				FY 94				FY 95				FY 96				FY 97							
				TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$					
CIDS																							
Anti-terrorism (Force Protection)																							
Physical Security Equipment																							
Transferred from OPA-2 to OPA-3 in FY 96.																							
Unit cost reflect only an average cost.																							
The unit cost is site dependent.																							
Components are assembled according to individual site security requirements.																							
TOTALS																					1,405		

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment										
P-1 ITEM NOMENCLATURE										
SYSTEM FIELDING SUPPORT (OPA-3) (MA0070)										
QUANTITY	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
		0	0	0	0	0	0	0		0
COST (in millions)		13.6	9.7	9.6	5.2	5.9	7.8	7.0		

**DESCRIPTION:** System fielding support funds provide for First Destination Transportation (FDT), Total Package Fielding (TPF) and New Equipment Training (NET) for all systems and equipment funded within Other Procurement Army, Activity 3, Other Support Equipment. FDT funds provide for the movement of Army equipment, modification kits, assemblies and components from the manufacturing point to a CONUS depot or other points of first acceptance within the CONUS supply system. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract.) TPF is the standard method of fielding new equipment developed under the Army's force modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, deprocessing, Temporary Duty (TDY), salaries, and Defense Business Operating Fund managed equipment.

**JUSTIFICATION:** Funds will ensure (1) continued uninterrupted shipment of newly procured items to Army users in support of readiness and training, (2) continued and orderly fielding of force modernization systems, and (3) transfer of knowledge from the materiel developer to the trainer, user, and other support personnel.

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					BASE LEVEL COM'L EQUIPMENT (MB7000)
FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
	0	0	0	0	0	0	0			
QUANTITY										
COST (in millions)	9.8	3.2	0.0	0.0	0.0	0.0	0.0			

DESCRIPTION: The Base Level Commercial Equipment (BCE) program funds equipment to support installation operating missions with contracts for the required equipment being awarded by the installation. BCE items are generally commercial, off-the-shelf, non-centrally managed items authorized by Table of Distribution and Allowances (TDA) activities of the Active Army and Reserve components and those Joint Table of Allowances (TA) activities for which the Army is the executive agent. The items can be used in a stand-alone mode and not lose their identity on application, and have a unit cost of \$100,000.00 or more. Examples of these items are: Commercial laundry and dry cleaning equipment, grounds maintenance equipment, and dishwashers.

**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY

OTHER PROCUREMENT / Other

Support Equipment

P-1 ITEM NOMENCLATURE

MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)		35.4	14.0	14.7	17.5	19.4	20.7	18.0

**DESCRIPTION:** This budget line funds OPA 3 modifications of in service equipment programs. It is used to procure hardware, materials, and installation to complete the modification. Items supported by this line include Logistics-Over-The-Shore (LOTS) watercraft, Combat Service and Engineering Support Equipment, and modifications to the M-9 Armored Combat Earthmover (ACE). Modifications are performed to correct safety deficiencies, increase mission capabilities, extend the useful life, extend supportability, upgrade to existing technology, increase efficiency, increase readiness, and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

**JUSTIFICATION:** The FY 1997 Modification of In-Service Equipment budget request supports modernization of 8 Ton Mechanized Landing Craft, Lighter, Amphibious Resupply Cargo 60, 100 Ft Tug, Marine Communication Electronics, and Navigational Equipment Upgrades which support the entire fleet of Army watercraft, and readiness improvements to the M-9 ACE. These upgrades will extend the service life of the Army's watercraft and preclude replacing them with new vessels at considerably greater cost. The system improvements to the M-9 ACE will improve operability and increase readiness.



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET		DATE	March 1996
---------------------------------	--	------	------------

APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / Other Support Equipment		MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)	

OSIP No.	Description	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Classification	All PYs							
1-ATCOM	Landing Craft, Mechanized 8 ton, Equipment Upgrade							
EQUIP UPGRADE	0.0	0.0	0.4	1.2	1.2	1.0	0.0	0.0
2-ATCOM	Lighter Amphibious Resupply Cargo 60, Svc Life Extension							
SLEP	0.0	0.0	1.4	3.8	5.5	6.0	6.2	2.4
4-ATCOM	Marine CEN Equipment Upgrade							
EQUIP UPGRADE	0.0	0.0	0.0	1.4	0.3	0.2	0.2	0.0
5-ATCOM	Recompression Chamber Diving, Certification Upgrade							
EQUIP UPGRADE	0.0	1.4	2.0	0.0	0.0	0.0	0.0	0.0
6-SSCOM	Laundry Units, Water Reuse System							
MODERNIZATION	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
7-SSCOM	Refrigeration Equipment, Power Generation							
EQUIP UPGRADE	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.0
8-TACOM	M-9 ACE Micro-Climatic Cooling System							
MODERNIZATION	5.9	3.5	1.5	0.2	0.0	0.0	0.0	0.0
9-TACOM	System Improvement Plan, M-9 ACE							
READINESS	0.0	2.6	5.2	3.6	3.8	3.7	4.1	4.1
10-CBDCOM	Smoke Obscurant (No P3a Set)							
MODERNIZATION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-ATCOM	Floating Machine Shop (No P3a Set)							
Modernization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-ATCOM	Crane, Barge, 100 Ton (No P3a Set)							
Modernization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-ATCOM	Barge, Deck Cargo (No P3a Set)							
Modernization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-ATCOM	Logistics Support Vehicle (No P3a Set)							
Modernization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-ATCOM	Halon Removal for various systems (No P3a Set)							
ENVIRONMENTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-ATCOM	Air Conditioning/CFC, Various Systems (No P3a Set)							
ENVIRONMENTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**THIS PAGE IS INTENTIONALLY BLANK**



MODIFICATION INSTALLATION SUMMA									
									Date
									March 1996
(TOA, Dollars in Millions)									
System/Modification	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL
* No P3a Set for modification									
MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)									
MA4500									
Landing Craft, Mechanized 8 ton, Equipment Upgrade	0.0	0.0	0.1	0.5	0.5	0.4	0.0	0.0	1.5
Lighter Amphibious Resupply Cargo 60, Svc Life Extension	0.0	0.0	0.0	1.0	1.9	2.4	2.4	2.4	10.1
Marine CEN Equipment Upgrade	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.6
Recompression Chamber Diving, Certification Upgrade	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.9
Laundry Units, Water Reuse System	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Refrigeration Equipment, Power Generation	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4
M-9 ACE Micro-Climatic Cooling System	0.0	0.1	1.1	0.2	0.0	0.0	0.0	0.0	1.4
System Improvement Plan, M-9 ACE	0.0	0.0	0.0	1.4	1.4	0.0	0.3	0.5	3.6
Smoke Obscurant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Floating Machine Shop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, Barge, 100 Ton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Barge, Deck Cargo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Logistics Support Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Halon Removal for various systems	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Conditioning/CFC, Various Systems	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refrigeration/CFC, Various Systems	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medium Girder Bridge Upgrade	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPGRADE 100' TUG	0.0	0.0	0.0	0.0	1.2	2.4	2.4	1.2	7.2
Logistics Over The Shore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combat Service Support Equip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.5	1.9	3.5	5.2	5.4	5.3	4.1	25.8

INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE:		Landing Craft, Mechanized 8 ton, Equipment Upgrade 1-ATCOM	
MODELS OF SYSTEMS AFFECTED:		Landing Craft, Mechanized, 8 (LCM-8), Mod 1	
DESCRIPTION / JUSTIFICATION:		<p>This upgrade will correct safety and operational shortcomings identified by the user community and combat developer. The upgrade will include installation of an escape hatch in the head of the craft, provide a new compass, enhancing the operational capabilities, and an improved bilge ballast system.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		PLANNED	ACCOMPLISHED
Material Change approved		3Q/96	
IPR/Production Decision		3Q/96	
Production Contract Award		3Q/96	
First Production Hardware Delivery		4Q/96	
First Modification Kit Applied		4Q/96	
Last Modification Kit Applied		1Q/00	



Installation Schedule: Landing Craft, Mechanized 8 ton, Equipment Upgrade 1-ATCOM

	FY 1994 & Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		Total
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																					
FY 1994 & Prior																					7
FY 1995																					24
FY 1996																					
FY 1997																					
Outputs																					
FY 1994 & Prior																					7
FY 1995																					24
FY 1996																					
FY 1997																					



INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE: Lighter Amphibious Resupply Cargo 60, Svc Life Extension 2-ATCOM			
MODELS OF SYSTEMS AFFECTED: Lighter, Amphibious, Resupply Cargo 60			
DESCRIPTION / JUSTIFICATION: <p>This SLEP program involves the modification of 22 craft to extend their useful life 20 years. Maintenance and operational capability improvements for Logistics-Over-the-Shore (LOTS) operations will be accomplished. Current speed and mobility will be increased. Capability to operate on unimproved beaches will be enhanced.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
	PLANNED	ACCOMPLISHED	
	2Q/95	2Q/95	
Material Change Approved			
IPR/Production Decision	2Q/95	2Q/95	
Production Contract Award	3Q/96		
First Production Hardware Delivery	4Q/96		
First Modification Kit Applied	1Q/97		
Last Modification Kit Applied	1Q/02		

## March 1996

Lighter Amphibious Resupply Cargo 60, Svc Life Extension 2-ATCOM

**MODIFICATION TITLE (Cont):**

**FINANCIAL PLAN: (\$ in Millions)**

	FY 1994 and Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
<b>RD&amp;E</b>																				
<b>PROCUREMENT</b>																				
Kit Quantity			2	1.4	4	2.8	5	3.6	5	3.6	5	3.6	5	3.8					21	15.3
Installation Kits																				
Installation Kits Nonrecurring Equipment																				
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
<b>Installation of Hardware</b>																				
FY 1994 & Prior Eqpt -- Kits																				
FY 1995 Eqpt -- Kits																				
FY 1996 Eqpt --2 Kits					2	1.0	4	1.9	4	1.9	5	2.4	5	2.4	5	2.4			21	10.1
FY 1997 Eqpt --4 Kits																				
FY 1998 Eqpt -- 5 Kits																				
FY 1999 Eqpt --5 Kits																				
FY 2000 Eqpt --5 Kits																				
FY 2001 Eqpt -- Kits																				
(FY(TC) Eqpt (xxKits))																				
Total Installation Cost					2	1.0	4	1.9	4	1.9	5	2.4	5	2.4	5	2.4			21	10.1
Total Procurement Cost				1.4		3.8		5.5		6.0		6.2		25.3						

## METHOD OF IMPLEMENTATION Contractor

**Contract Dates:**

**Delivery Date:**

**ADMINISTRATIVE LEADTIME:**

FY 1996:

FY 1996:

3 Months

Apr 96

**Aug 96**

8 Months

**PRODUCTION LEADTIME:**

Dec 96

Aug 97

Installation Schedule: Lighter Amphibious Resupply Cargo 60, Svc Life Extension 2-ATCOM													
FY 1994		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		March 1998	
& Prior		1	2	3	4	1	2	3	4	1	2	3	4
Inputs													
FY 1994 & Prior													
FY 1995													
FY 1996													
FY 1997													
Outputs													
FY 1994 & Prior													
FY 1995													
FY 1996													
FY 1997													
FY 1998													
FY 1999													
FY 2000													
FY 2001													
Inputs													
FY 1998													
FY 1999													
FY 2000													
FY 2001													
Outputs													
FY 1998													
FY 1999													
FY 2000													
FY 2001													
Remarks:													

INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE:		Marine CEN Equipment Upgrade 4-ATCOM	
MODELS OF SYSTEMS AFFECTED:		Landing Craft Utility (LCU) 2000, Logistics Support Vessel (LSV), 128' Tug Hi Speed Patrol Boat	
DESCRIPTION / JUSTIFICATION:		<p>This upgrade will allow these vessels to continue to meet federal maritime and safety standards. It will upgrade communications, electronics, and navigational equipment maintaining capability with other Services.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
		PLANNED	ACCOMPLISHED
Mateirel Change Approved		2Q/96	
Prototype Test Completed		2Q/96	
Production Contract Award		3Q/97	
First Production Hardware Delivered		1Q/98	
First Kit Applied		1Q/96	
Last Kit Applied		1Q/00	





INDIVIDUAL MODIFICATION		Date	March 1996												
MODIFICATION TITLE:		Recompression Chamber Diving, Certification Upgrade 5-ATCOM													
MODELS OF SYSTEMS AFFECTED:		Chamber, Recompression, 100 PSI, 3-Man (M300)													
DESCRIPTION / JUSTIFICATION:		<p>Recompression chamber is used to treat diver recompression sickness. Modification of these chambers is required to comply with the current Army certification requirements for life support and breathable air systems.</p>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		<table border="1"> <thead> <tr> <th>PLANNED</th> <th>ACCOMPLISHED</th> </tr> </thead> <tbody> <tr> <td>3Q/95</td> <td>3Q/95</td> </tr> <tr> <td>2Q/95</td> <td>2Q/95</td> </tr> <tr> <td>3Q/95</td> <td>3Q/95</td> </tr> <tr> <td>4Q/96</td> <td></td> </tr> <tr> <td>1Q/98</td> <td></td> </tr> </tbody> </table>	PLANNED	ACCOMPLISHED	3Q/95	3Q/95	2Q/95	2Q/95	3Q/95	3Q/95	4Q/96		1Q/98		
PLANNED	ACCOMPLISHED														
3Q/95	3Q/95														
2Q/95	2Q/95														
3Q/95	3Q/95														
4Q/96															
1Q/98															





Installation Schedule: Recompression Chamber Diving, Certification Upgrade 5-ATCOM																							
FY 1994		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		Total			
& Prior		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total	
<b>Inputs</b>																							
FY 1994 & Prior																							
		2	1																			3	
																						4	
FY 1995																							
		2		2																		3	
FY 1996																							
				2																		4	
FY 1997																							
<b>Outputs</b>																							
FY 1994 & Prior																							
		2		1																		3	
				2																		4	
FY 1995																							
						2																	3
FY 1996																							
								2														4	
FY 1997																							
<b>Inputs</b>																							
FY 1998																							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total	
FY 1999																							
FY 2000																							
FY 2001																							
<b>Outputs</b>																							
FY 1998																							
FY 1999																							
FY 2000																							
FY 2001																							
<b>Remarks:</b>																							

INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE:		Laundry Units, Water Reuse System 6-SSCOM	
MODELS OF SYSTEMS AFFECTED:		M 85 Laundry Unit, Trailer Mounted	
DESCRIPTION / JUSTIFICATION:		<p>The Laundry Water Reuse modification will allow the laundry units to conserve 33% to 45% of the water used by the current configuration. Additionally, it will allow for recapturing contaminated waste water which is an EPA requirement. This modification also adapts this laundry to accept the new 10KW Tactical Quiet Generator (TQG) in lieu of the military standard generator.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		PLANNED	ACCOMPLISHED
Material Change Approved		2Q/95	2Q/95
IPR/Production Decision		2Q/95	2Q/95
Production Contract Award		3Q/96	
First Production Hardware Delivery		3Q/96	
First Modification Kit Applied		3Q/96	
Last Modification Kit Applied		3Q/97	





INDIVIDUAL MODIFICATION		Date	March 1996
<b>MODIFICATION TITLE:</b> Refrigeration Equipment, Power Generation 7-SSCOM			
<b>MODELS OF SYSTEMS AFFECTED:</b> Refrigerated Container, 8' X 8' X 20' (M919)			
<b>DESCRIPTION / JUSTIFICATION:</b> Modification is required on the M919 Refrigerated Containers to allow them to accept the 10KW Tactical Quiet Generator (TQG). This generator replaces the 10KW military standard, diesel generator sets. Modification of the container and generator is required to allow the operator to perform daily and weekly preventative maintenance checks and services (PMCS) on the TQG.			
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>			
	<u>PLANNED</u>	<u>ACCOMPLISHED</u>	
Material Change Approved	1Q/95		1Q/95
Prototype Completed	3Q/96		
Production Contract Award	4Q/96		
First Production Hardware Delivery	1Q/97		
First Modification Kit Applied	2Q/97		
Last Modification Kit Applied	1Q/98		

INDIVIDUAL MODIFICATION														
Refrigeration Equipment, Power Generation 7-SSCOM														
MODIFICATION TITLE (Cont):														
FINANCIAL PLAN: (\$ in Millions)														
	FY 1994 and Prior	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TC	TOTAL				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E														
PROCUREMENT														
Kit Quantity														
Installation Kits			423	0.3							423			0.3
Installation Kits Nonrecurring														
Equipment														
Equipment Nonrecurring														
Engineering Change Orders														
Data														
Training Equipment														
Support Equipment														
Other														
Interim Contractor Support														
Installation of Hardware														
FY 1994 & Prior Eqpt -- Kits														
FY 1995 Eqpt -- Kits														
FY 1996 Eqpt -- 423 Kits				423	0.4						423			0.4
FY 1997 Eqpt -- Kits														
FY 1998 Eqpt -- kits														
FY 1999 Eqpt -- kits														
FY 2000 Eqpt -- kits														
FY 2001 Eqpt -- kits														
(FY(TC) Eqpt (xx kits)														
Total Installation Cost				423	0.4						423			0.4
Total Procurement Cost														0.7

  

METHOD OF IMPLEMENTATION Enter Method	ADMINISTRATIVE LEADTIME:	9 Months	PRODUCTION LEADTIME:	3 Months
Contract Dates:	FY 1995:	Aug 96	FY 1997:	
Delivery Date:	FY 1995:	Dec 96	FY 1997:	

**March 1996**

Inputs																			
FY 1994 & Prior	FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		Total
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																			
FY 1994 & Prior																			
FY 1995																			
FY 1996																			
FY 1997																			
FY 1998																			
FY 1999																			
FY 2000																			
FY 2001																			
FY 2002																			
FY 2003																			
FY 2004																			
FY 2005																			
FY 2006																			
FY 2007																			
FY 2008																			
FY 2009																			
FY 2010																			
FY 2011																			
FY 2012																			
FY 2013																			
FY 2014																			
FY 2015																			
FY 2016																			
FY 2017																			
FY 2018																			
FY 2019																			
FY 2020																			
FY 2021																			
FY 2022																			
FY 2023																			
FY 2024																			
FY 2025																			
FY 2026																			
FY 2027																			
FY 2028																			
FY 2029																			
FY 2030																			
FY 2031																			
FY 2032																			
FY 2033																			
FY 2034																			
FY 2035																			
FY 2036																			
FY 2037																			
FY 2038																			
FY 2039																			
FY 2040																			
FY 2041																			
FY 2042																			
FY 2043																			
FY 2044																			
FY 2045																			
FY 2046																			
FY 2047																			
FY 2048																			
FY 2049																			
FY 2050																			
FY 2051																			
FY 2052																			
FY 2053																			
FY 2054																			
FY 2055																			
FY 2056																			
FY 2057																			
FY 2058																			
FY 2059																			
FY 2060																			
FY 2061																			
FY 2062																			
FY 2063																			
FY 2064																			
FY 2065																			
FY 2066																			
FY 2067																			
FY 2068																			
FY 2069																			
FY 2070																			
FY 2071																			
FY 2072																			
FY 2073																			
FY 2074																			
FY 2075																			
FY 2076																			
FY 2077																			
FY 2078																			
FY 2079																			
FY 2080																			
FY 2081																			
FY 2082																			
FY 2083																			
FY 2084																			
FY 2085																			
FY 2086																			
FY 2087																			
FY 2088																			
FY 2089																			
FY 2090																			
FY 2091																			
FY 2092																			
FY 2093																			
FY 2094																			
FY 2095																			
FY 2096																			
FY 2097																			
FY 2098																			
FY 2099																			
FY 2100																			
FY 2101																			
FY 2102																			
FY 2103																			
FY 2104																			
FY 2105																			
FY 2106																			
FY 2107																			
FY 2108																			
FY 2109																			
FY 2110																			
FY 2111																			
FY 2112																			
FY 2113																			
FY 2114																			
FY 2115																			
FY 2116																			
FY 2117																			
FY 2118																			
FY 2119																			
FY 2120																			
FY 2121																			
FY 2122																			
FY 2123																			
FY 2124																			
FY 2125																			
FY 2126																			
FY 2127																			
FY 2128																			
FY 2129																			
FY 2130																			
FY 2131																			
FY 2132																			
FY 2133																			
FY 2134																			
FY 2135																			
FY 2136																			
FY 2137																			
FY 2138																			
FY 2139																			
FY 2140																			
FY 2141																			
FY 2142																			
FY 2143																			
FY 2144																			
FY 2145																			
FY 2146																			
FY 2147																			
FY 2148																			
FY 2149																			
FY 2150																			
FY 2151																			
FY 2152																			
FY 2153																			
FY 2154																			
FY 2155																			
FY 2156																			
FY 2157																			
FY 2158																			
FY 2159																			
FY 2160																			
FY 2161																			
FY 2162																			
FY 2163																			
FY 2164																			
FY 2165																			
FY 2166																			
FY 2167																			
FY 2168																			
FY 2169																			
FY 2170																			
FY 2171																			
FY 2172																			
FY 2173																			
FY 2174																			
FY 2175																			
FY 2176																			
FY 2177																			
FY 2178																			
FY 2179																			
FY 2180																			
FY 2181																			
FY 2182																			
FY 2183																			
FY 2184																			
FY 2185																			
FY 2186																			
FY 2187																			
FY 2188																			
FY 2189																			
FY 2190																			
FY 2191																			
FY 2192																			
FY 2193																			
FY 2194																			
FY 2195																			
FY 2196																			
FY 2197																			
FY 2198																			
FY 2199																			
FY 2200																			
FY 2201																			
FY 2202																			
FY 2203																			
FY 2204																			
FY 2205																			
FY 2206																			
FY 2207																			
FY 2208																			
FY 2209																			
FY 2210																			
FY 2211																			
FY 2212																			
FY 2213																			
FY 2214																			
FY 2215																			
FY 2216																			
FY 2217																			
FY 2218																			
FY 2219																			
FY 2220																			
FY 2221																			
FY 2222																			
FY 2223																			
FY 2224																			
FY 2225																			
FY 2226																			
FY 2227																			
FY 2228																			
FY 2229																			
FY 2230																			
FY 2231																			
FY 2232																			
FY 2233																			
FY 2234																			
FY 2235																			
FY 2236																			
FY 2237																			
FY 2238																			
FY 2239																			
FY 2240																			
FY 2241																			
FY 2242																			
FY 2243																			
FY 2244																			
FY 2245																			
FY 2246																			
FY 2247																			
FY 2248																			
FY 2249																			
FY 2250																			
FY 2251																			
FY 2252																			
FY 2253																			
FY 2254																			
FY 2255																			
FY 2256																			
FY 2257																			
FY 2258																			
FY 2259																			
FY 2260																			
FY 2261																			
FY 2262																			
FY 2263																			
FY 2264																			
FY 2265																			
FY 2266																			
FY 2267																			
FY 2268																			
FY 2269																			
FY 2270																			
FY 2271																			
FY 2272																			
FY 2273																			
FY 2274																			
FY 2275																			
FY 2276																			
FY 2277																			
FY 2278																			
FY 2279																			
FY 2280																			
FY 2281																			
FY 2282																			
FY 2283																			
FY 2284																			
FY 2285																			
FY 2286																			
FY 2287																			
FY 2288																			
FY 2289																			
FY 2290																			
FY 2291																			
FY 2292																			
FY 2293																			
FY 2294																			
FY 2295																			
FY 2296																			
FY 2297																			
FY 2298																			
FY 2299																			
FY 2300																			
FY 2301																			
FY 2302																			
FY 2303																			
FY 2304																			
FY 2305																			
FY 2306																			
FY 2307																			
FY 2308																			
FY 2309																			
FY 2310																			
FY 2311																			
FY 2312																			
FY 2313																			
FY 2314																			
FY 2315																			
FY 2316																			
FY 2317																			
FY 2318																			
FY 2319																			
FY 2320																			
FY 2321																			
FY 2322																			
FY 2323																			
FY 2324																			
FY 2325																			
FY 2326																			
FY 2327																			
FY 2328																			
FY 2329																			
FY 2330																			
FY 2331																			
FY 2332																			
FY 2333																			
FY 2334																			
FY 2335																			
FY 2336																			
FY 2337																			
FY 2338																			
FY 2339																			
FY 2340																			
FY 2341																			
FY 2342																			
FY 2343																			
FY 2344																			
FY 2345																			
FY 2346																			
FY 2347																			
FY 2348																			
FY 2349																			
FY 2350																			
FY 2351																			
FY 2352																			
FY 2353																			
FY 2354																			
FY 2355																			
FY 2356																			
FY 2357																			
FY 2358																			
FY 2359																			
FY 2360																			
FY 2361																			
FY 2362																			
FY 2363																			
FY 2364																			
FY 2365																			
FY 2366																			
FY 2367																			
FY 2368																			
FY 2369																			
FY 2370																			
FY 2371																			
FY 2372																			
FY 2373																			
FY 2374																			
FY 2375																			
FY 2376																			
FY 2377																			
FY 2378																			
FY 2379																			
FY 2380																			
FY 2381																			
FY 2382																			
FY 2383																			
FY 2384																			
FY 2385																			
FY 2386																			
FY 2387																			
FY 2388																			
FY 2389																			
FY 2390																			
FY 2391																			
FY 2392																			
FY 2393																			
FY 2394																			
FY 2395																			
FY 2396																			
FY 2397																			
FY 2398																			
FY 2399																			
FY 2400																			
FY 2401																			
FY 2402																			
FY 2403																			
FY 2404																			
FY 2405																			
FY 2406																			
FY 2407																			
FY 2408																			
FY 2409																			
FY 2410																			
FY 2411																			
FY 2412																			
FY 2413																			
FY 2414																			
FY 2415																			
FY 2416																			
FY 2417																			
FY 2418																			
FY 2419																			
FY 2420																			
FY 2421																			
FY 2422																			
FY 2423																			
FY 2424																			
FY 2425																			
FY 2426																			
FY 2427																			
FY 2428																			
FY 2429																			
FY 2430																			
FY 2431																			
FY 2432																			
FY 2433																			
FY 2434																			
FY 2435																			
FY 2436																			
FY 2437																			
FY 2438																			
FY 2439																			
FY 2440																			
FY 2441																			
FY 2442																			
FY 2443																			
FY 2444																			
FY 2445																			
FY 2446																			
FY 2447																			
FY 2448																			
FY 2449																			
FY 2450																			
FY 2451																			
FY 2452																			
FY 2453																			
FY 2454																			
FY 2455																			
FY 2456																			
FY 2457																			
FY 2458																			
FY 2459																			
FY 2460																			
FY 2461																			
FY 2462																			
FY 2463																			
FY 2464																			
FY 2465																			
FY 2466																			
FY 2467																			
FY 2468																			
FY 2469																			
FY 2470																			
FY 2471																			
FY 2472																			
FY 2473																			
FY 2474																			
FY 2475																			
FY 2476																			
FY 2477																			
FY 2478																			
FY 2479																			
FY 2480																			
FY 2481																			
FY 2482																			
FY 2483																			
FY 2484																			
FY 2485																			
FY 2486																			
FY 2487																			
FY 2488																			
FY 2489																			
FY 2490																			
FY 2491																			
FY 2492																			
FY 2493																			
FY 2494																			
FY 2495																			
FY 2496																			
FY 2497																			
FY 2498																			
FY 2499																			
FY 2500																			
FY 2501																			
FY 2502																			
FY 2503																			
FY 2504																			
FY 2505																			
FY 2506																			
FY 2507																			
FY 2508																			
FY 2509																			
FY 2510																			
FY 2511																			
FY 2512																			
FY 2513																			
FY 2514																			
FY 2515																			
FY 2516																			
FY 2517																			
FY 2518																			
FY 2519																			
FY 2520																			
FY 2521																			
FY 2522																			
FY 2523																			
FY 2524																			
FY 2525																			
FY 2526																			
FY 2527																			
FY 2528																			
FY 2529																			
FY 2530																			
FY 2531																			
FY 2532																			
FY 2533																			
FY 2534																			
FY 2535																			
FY 2536																			
FY 2537																			
FY 2538																			
FY 2539																			
FY 2540																			
FY 2541																			
FY 2542																			
FY 2543																			
FY 2544																			
FY 2545																			
FY 2546																			
FY 2547																			
FY 2548																			
FY 2549																			
FY 2550																			
FY 2551																			
FY 2552																			
FY 2553																			
FY 2554																			
FY 2555																			
FY 2556																			
FY 2557																			
FY 2558																			
FY 2559																			
FY 2560																			
FY 2561																			
FY 2562																			
FY 2563																			
FY 2564																			
FY 2565																			
FY 2566																			
FY 2567																			
FY 2568																			
FY 2569																			
FY 2570																			
FY 2571																			
FY 2572																			
FY 2573																			
FY 2574																			
FY 2575																			
FY 2576																			
FY 2577																			
FY 2578																			
FY 2579																			
FY 2580																			
FY 2581																			
FY 2582																			
FY 2583																			
FY 2584																			
FY 2585																			
FY 2586																			
FY 2587																			
FY 2588																			
FY 2589																			
FY 2590																			
FY 2591																			
FY 2592																			
FY 2593																			
FY 2594																			
FY 2595																			
FY 2596																			
FY 2597																			
FY 2598																			
FY 2599																			
FY 2600																			
FY 2601																			
FY 2602																			
FY 2603																			
FY 2604																			
FY 2605																			
FY 2606																			
FY 2607																			
FY 2608																			
FY 2609																			
FY 2610																			
FY 2611																			
FY 2612																			
FY 2613																			
FY 2614																			
FY 2615																			
FY 2616																			
FY 2617																			
FY 2618																			
FY 2619																			
FY 2620																			
FY 2621																			
FY 2622																			
FY 2623																			
FY 2624																			
FY 2625																			
FY 2626																			
FY 2627																			
FY 2628																			
FY																			

INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE:	M-9 ACE Micro-Climatic Cooling System 8-TACOM		
MODELS OF SYSTEMS AFFECTED:	M9 Armored Combat Earthmover (M9 ACE)		
DESCRIPTION / JUSTIFICATION:	<p>This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.</p>		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
Preliminary Design Review:	PLANNED 3Q/83	ACCOMPLISHED 3Q/83	
Critical Design Review:	3Q/88	3Q/88	
Contractor Test and Evaluation:	2Q/91	2Q/91	
Development Test and Evaluation:	4Q/91	4Q/91	
Initial Operational Test and Evaluation:	N/A	N/A	
IPR Production Decision	4Q/91	4Q/91	
TDP Available:	1Q/92	2Q/92	



INDIVIDUAL MODIFICATION																				
M-9 ACE Micro-Climatic Cooling System 8-TACOM																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1994 and Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	80	0.7	378	1.0															458	1.7
Installation Kits			34	2.2															34	7.4
Installation Kits Nonrecurring Equipment																				
Equipment Nonrecurring																				
Engineering Change Orders																				
Data					0.2	0.4														0.6
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1994 & Prior Eqpt -- Kits			35	0.1	45	0.1													80	0.2
FY 1995 Eqpt -- Kits					324	1.0	44	0.2											368	1.2
FY 1996 Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- kits																				
FY 1999 Eqpt -- kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Total Installation Cost			35	0.1	369	1.1	44	0.2											448	1.4
Total Procurement Cost				3.5		1.5		0.2												11.1

  

METHOD OF IMPLEMENTATION				Contractor Field Teams				ADMINISTRATIVE LEADTIME:				PRODUCTION LEADTIME:			
Contract Dates:		Delivery Date:		FY 1995:		FY 1996:		Mar-96		Sep-96		FY 1996:		FY 1997:	

Installation Schedule: M-9 ACE Micro-Climatic Cooling System 8-TACOM

	FY 1994		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		March 1996	
	FY 1994	& Prior	1	2	3	4	1	2	3	4	1	2	3	4
<b>Inputs</b>														<b>Total</b>
FY 1994 & Prior														80
FY 1995						35								368
FY 1996						108	108	108						
FY 1997														
<b>Outputs</b>														
FY 1994 & Prior														80
FY 1995						35								368
FY 1996						108	108	108						
FY 1997														
<b>Inputs</b>														
FY 1998														
FY 1999														
FY 2000														
FY 2001														
<b>Outputs</b>														
FY 1998														
FY 1999														
FY 2000														
FY 2001														
<b>Remarks:</b>														

INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE:		System Improvement Plan, M-9 ACE 9-TACOM	
MODELS OF SYSTEMS AFFECTED:		M9 Armored Combat Earthmover (M9 ACE)	
DESCRIPTION / JUSTIFICATION:		<p>This modification program consists of ten hardware improvements to the M9 ACE system. This also includes application, program management and data costs. These are immediate essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness and maintenance of the M9 ACE. Each hardware improvement is applied to 448 vehicles. The steel dozer blade will be installed in conjunction with blade folder. Winches will be installed at unit level.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		PLANNED	ACCOMPLISHED
Preliminary Design Review:		4Q/95	4Q/95
Critical Design Review:		N/A	
Contractor Test and Evaluation:		2Q/96	
Development Test and Evaluation:		N/A	
Initial Operational Test and Evaluation:		N/A	
IPR Production Decision		N/A	
TDP Available:		2Q/96	



Installation Schedule: System Improvement Plan, M-9 ACE 9-TACOM														
FY 1994		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		March 1996		Total
& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	
Inputs														
FY 1994 & Prior														197
FY 1995					49	49	49	50						1723
FY 1996					258	258	258	261	172	172	172	172		460
FY 1997					32	32	32	34	82	82	82	84		
Outputs														
FY 1994 & Prior														197
FY 1995					49	49	49	50						1723
FY 1996					258	258	258	261	172	172	172	172		460
FY 1997					32	32	32	34	82	82	82	84		
Inputs														
FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		Total		
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
77	77	77	77											
FY 1998					45	45	45	48						308
FY 1999					12	12	12	12	54	54	57			183
FY 2000														267
FY 2001								37	37	37	40	21	21	237
Outputs														
FY 1998														308
FY 1999					45	45	45	48						183
FY 2000					12	12	12	12	54	54	57			267
FY 2001								37	37	37	40	21	21	237
Remarks: Additional \$372K is required to complete SIP Installation.														

INDIVIDUAL MODIFICATION		Date	March 1996
MODIFICATION TITLE: UPGRADE 100' TUG 3-ATCOM			
MODELS OF SYSTEMS AFFECTED: 100' Tug			
DESCRIPTION / JUSTIFICATION: This upgrade will significantly improve the mission capability of the vessel. It will improve the main engine power plant, upgrade on-board environmental capabilities, improve crew quarters and open mess areas. The operations center will be improved to enhance maneuverability. This modification includes update of communications, electronics and navigational equipment.			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
Material Change Approved	PLANNED 4Q/94	ACCOMPLISHED 4Q/94	
Prototype Test Completed	4Q/95	4Q/95	
Production Contract Award	1Q/97		
First Production Hardware Delivered	3Q/97		
First Kit Applied	4Q/97		
Last Kit Applied	4Q/01		

INDIVIDUAL MODIFICATION

March 1996

Date

MODIFICATION TITLE (Cont): UPGRADE 100' TUG 3-ATCOM

FINANCIAL PLAN: (\$ in Millions)

	FY 1994 and Prior		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring Equipment																				
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1994 & Prior Eqpt--Kits																				
FY 1995 Eqpt -- Kits																				
FY 1996 Eqpt -- Kits																				
FY 1997 Eqpt -- 2 Kits																				
FY 1998 Eqpt --2 Kits																				
FY 1999 Eqpt --2 Kits																				
FY 2000 Eqpt --Kits																				
FY 2001 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Total Installation Cost																				
Total Procurement Cost																				

METHOD OF IMPLEMENTATION US Shipyard

Contract Dates: FY 1995:

Delivery Date: FY 1995:

ADMINISTRATIVE LEADTIME: 5 Months

FY 1996:

FY 1996:

PRODUCTION LEADTIME: 9 Months

FY 1997: Dec 97

FY 1997: Jun 97

Installation Schedule: UPGRADE 100' TUG 3-ATCOM

		FY 1994		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		Total	
		& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total
<b>Inputs</b>																							
FY 1994 & Prior																							
FY 1995																							
FY 1996																							
FY 1997																							
<b>Outputs</b>																							
FY 1994 & Prior																							
FY 1995																							
FY 1996																							
FY 1997																							
<b>Inputs</b>																							
FY 1998																							
FY 1999																							
FY 2000																							
FY 2001																							
<b>Outputs</b>																							
FY 1998																							
FY 1999																							
FY 2000																							
FY 2001																							

Remarks:

Installation and Procurement of hardware will be awarded in the United States. Cost of project has increased due to change in contractor location.



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					PRODUCTION BASE SUPPORT (OTH) (MA0450)
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY		0	0	0	0	0	0	0		
COST (in millions)		4.0	1.8	1.9	2.3	2.3	2.6	2.5		
<p><b>DESCRIPTION:</b> This program sustains and improves our current capabilities through the purchase of equipment, instrumentation, and facilities. Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test Status Reporting System equipment, and Telemetry equipment used in production and production testing of Army materiel.</p> <p><b>JUSTIFICATION:</b> Funding in FY97 will be used for replacement of equipment and instrumentation used in production testing at Yuma, Aberdeen Proving Grounds and the Cold Region Test Center, Ft. Greely, Alaska.</p> <p>A detailed summary listing of projects is attached.</p>										

Production Support and Facilities Projects			DATE		March 1996	
APPROPRIATION / BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE		PRODUCTION BASE SUPPORT (OTH) (MA0450)	
OTHER PROCUREMENT /Other Support Equipment						
PROJECT NO.	TYPE	NAME /LOCATION	FY 1994	FY 1995	FY 1996	FY 1997
09X5063	PSR Aberdeen Proving Ground	Production Support and Equipment Replacement (PSR) of existing test equipment and instrumentation used to support, record and analyze performance data during production testing.		0.227	0.788	0.800
09X5068	PSR, Yuma Proving Ground	Replacement of Automotive Instrumentation Equipment, Dynamic Test Support Equipment, Test Status Reporting System Equipment, and Telemetry Equipment to support data gathering for test support.		0.201	0.747	0.865
09X5070	PSR, Cold Region Test Center	Replacement of existing test equipment, instrumentation, provide telemetry data transmission, and telephoto lens for IR Imaging Camera to analyze performance data during cold weather testing of other support equipment.		0.199	0.242	0.250
09X5168	MOD, Yuma Proving Ground	Modernization of existing obsolete, unrepairable test equipment and instrumentation used during production testing of Army materiel.		0.302		
09X5163	Mod Aberdeen Proving Ground	Modernization and upgrade of test instrumentation and test support equipment used for production testing of other support equipment.		0.944		

Production Support and Facilities Projects		DATE
APPROPRIATION / BUDGET ACTIVITY		March 1996
OTHER PROCUREMENT / Other Support Equipment		
P-1 ITEM NOMENCLATURE		
PRODUCTION BASE SUPPORT (OTH) (MA0450)		
PROJECT NO.	TYPE	NAME / LOCATION
		<div>FY 1994</div> <div>FY 1995</div> <div>FY 1996</div> <div>FY 1997</div>
		2.175
		Hazardous Minimization Project Office of the Secretary of the Army

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET								DATE
APPROPRIATION / BUDGET ACTIVITY								March 1996
OTHER PROCUREMENT / Other Support Equipment				P-1 ITEM NOMENCLATURE				
				SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY		0	0	0	0	0	0	0
COST (in millions)		10.4	8.9	13.5	15.1	15.6	18.9	28.3
<p>DESCRIPTION:</p> <p>THIS PROGRAM PROVIDES FUNDING FOR MAJOR USER TEST INSTRUMENTATION, ARMY THREAT SIMULATORS, AND OPERATIONAL TEST AND EVALUATION SUSTAINING INSTRUMENTATION. MAJOR USER TEST INSTRUMENTATION AND ARMY THREAT SIMULATORS SUPPORT FOR OPERATIONAL TESTING (OT) AND FORCE DEVELOPMENT TESTING AND EXPERIMENTATION (FDTE).</p> <p>PROCUREMENTS ARE NORMALLY FOR SMALL QUANTITIES, FREQUENTLY ONE ITEM. MAJOR USER TEST INSTRUMENTATION ACQUISITIONS ARE TYPICALLY PRODUCTION ITEMS OF INSTRUMENTATION EQUIPMENT DEVELOPED UNDER RDT&amp;E FUNDED CONTRACTS.</p> <p>TYPICAL ARMY THREAT SIMULATOR ACQUISITIONS ARE COMMERCIAL END ITEMS. THESE ARE USED AS COMPONENTS IN THREAT SIMULATORS. WHEN AVAILABLE, FOREIGN THREAT SYSTEMS AND END ITEMS ARE ACQUIRED.</p> <p>OT&amp;E SUSTAINING INSTRUMENTATION PROCURES LOW DOLLAR AUGMENTATIONS AND REPLACEMENTS FOR OBSOLETE OR TECHNICALLY DEFICIENT EQUIPMENT.</p> <p>JUSTIFICATION:</p> <p>THE MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) FY97 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACILITY.</p> <p>THE THREAT SIMULATOR EFFORT IN FY97 WILL CONTINUE PROCUREMENTS IN: THE XM15S THREAT AIR DEFENSE SYSTEM, DIAGNOSTIC/FMS, XM330ES ADVANCE AIRBORNE JAMMER, AND THE XMC3S COMMAND AND CONTROL SYSTEMS.</p> <p>IN FY97 THE OPERATIONAL TEST AND EVALUATION COMMAND'S OPTEC TEST INSTRUMENTATION PROGRAM (OTIP) PROCURES: RADAR SIGNAL EMULATOR TO TRAIN COMMAND, CONTROL, AND COMMUNICATION THREAT SIMULATOR CREWS; REQUIRED NON-INTRUSIVE DATA COLLECTION SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT TRACKING AND RECORDING SYSTEM; MOBILE COMMAND POST TO PROVIDE COMMAND, COORDINATION AND RANGE CONTROL FOR TESTS RUNNING CONCURRENTLY; XMHKS CRITICAL SPARES KIT TO SUPPORT THREAT SIMULATOR; AND REPLACEMENT SYSTEM FOR THE CURRENT MICROWAVE LINE-OF-BEARING SYSTEM IN THE ELECTRONIC WARFARE MONITORING FACILITY.</p>								

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Other Support Equipment					P-1 ITEM NOMENCLATURE					
					SPECIAL EQUIPMENT FOR USER TESTING (MA6700)					
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY		0	0	0	0	0	0	0		
COST (in millions)		6.8	5.7	2.9	2.8	2.7	3.9	4.8		
<p>DESCRIPTION:</p> <p>THE ACQUISITION STRATEGY USED BY THE ARMY THREAT SIMULATOR PROGRAM IS TO PROCURE ACTUAL FOREIGN HARDWARE. THE SECOND OPTION IS TO USE NON DEVELOPMENTAL ITEMS (NDI) TO THE MAXIMUM EXTENT POSSIBLE (FOR EXAMPLE, CHASSIS, SUBSYSTEMS, COMMERCIAL EQUIPMENT, OR ACTUAL THREAT WEAPONS) WHICH INTEGRATES INTO A THREAT SIMULATION DESIGN. THE HIGH PROBABILITY OF ACQUIRING NDI EQUIPMENT HAS LED TO PROGRAMMING OF PROCUREMENT FUNDS TO RESOURCE THIS PORTION OF THE PROJECT EQUIPMENT, WHICH SUPPORTS US ARMY MAJOR SYSTEM OPERATIONAL TESTING SUCH AS THE J-TIDS, MLRS SADARM V, AVENGER, APACHE LONGBOW, OH-58 ARMED, COMMANCHE (RAH66) AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE) WARNING RECEIVER SYSTEMS. THREAT SIMULATOR DIAGNOSTIC EQUIPMENT SUPPORTS VALIDATION, OPERATIONAL PERFORMANCE MONITORING, CALIBRATION, AND MAINTENANCE.</p> <p>JUSTIFICATION:</p> <p>THE EFFORT IN FY97 WILL CONTINUE DEVELOPMENT IN THE FOLLOWING AREAS: XM15S, TS DIAGNOSTIC/FMS, XM330ES, AND XMC3S. THE XM15S FUNDING PROCURES NDI NECESSARY FOR SUSTAINMENT (FY97). THE XM15S SIMULATOR REPRESENTS AN ADVANCED TACTICAL AIR DEFENSE SYSTEM FOR TESTING OF US WEAPON SYSTEMS. THE AVAILABILITY OF THIS HIGH TECHNOLOGY THREAT ON THE BATTLEFIELD WILL HAVE A SIGNIFICANT IMPACT ON LOW ALTITUDE CROSS SECTION TARGETS. IT IS ESPECIALLY EFFECTIVE AGAINST ROTARY WING AIRCRAFT AND IS A PART OF A HIGHLY INTEGRATED TACTICAL NETWORK. THE TS DIAGNOSTIC/CALIBRATION PROCURES THE VALIDATION, OPERATIONAL PERFORMANCE MONITOR CALIBRATION, AND MAINTENANCE OF ALL ACTUAL AND SIMULATED SYSTEMS IN DEVELOPMENT. THIS PROJECT PROVIDES FOR SUPPORT TO HIGH TECHNOLOGY EMERGING BLUE SYSTEMS FOR TECHNICAL AND OPERATIONAL TESTING AND GIVES THE ARMY THE CAPABILITY TO PROVIDE THREAT RESOURCES TO TEST PROGRAMS. THE XM330ES FUNDING PROCURES A COMMUNICATIONS JAMMER SYSTEM (FY97). THIS PROJECT PROVIDES AN UPGRADED CAPABILITY TO REPRESENT A COMMUNICATIONS JAMMER FOR TESTING US WEAPON SYSTEMS. SUPPORTS THE ARMY'S CAPABILITY TO TEST AND TRAIN C3I SYSTEMS. THIS REQUIREMENT IS THE NUMBER ONE PRIORITY FOR OTSA. THE XMC3S FUNDING PROCURES THE VIRTUAL ENVIRONMENT INTERFACE UNIT FOR THE REGIMENTAL ELEMENTS (FY97). THE XMC3S PROVIDES A FAMILY OF COMMAND AND CONTROL SIMULATORS CAPABLE OF INTERFACING BOTH FIELDIED AND PROJECTED AIR DEFENSE SIMULATORS. THIS PROJECT WILL PROVIDE REAL TIME LINKS BETWEEN ATS ASSETS BOTH VIRTUAL AND HARDWARE USING DIS PRODUCTS WHICH ARE CRITICAL TO INTEGRATED BATTLEFIELD TESTING. THE REPRESENTATION OF THE C3 FUNCTION IS CRITICAL TO ALL TASKS WHICH REQUIRE MULTIPLE THREATS. THE INTEGRATION OF AIR DEFENSE AVIATION AND GROUND SYSTEMS IS A FORCE MULTIPLIER WHICH WILL HAVE SIGNIFICANT IMPACT ON TESTING. THE EFFECTIVENESS OF THE THREAT AND ABILITY TO COUNTER MULTIPLE SYSTEMS CANNOT BE ADEQUATELY EVALUATED WITHOUT CONSIDERATION OF THE C3 NETWORK.</p>										



OPA Cost Analysis													
A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment													
B. WEAPON SPECIAL EQUIPMENT FOR USER TESTING (MA6700)													
C. MANUFACTURER NAME													
D. DATE March 1996													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 77													
FY 76													
FY 75													
FY 74													
FY 73													
FY 72													
FY 71													
FY 70													
FY 69													
FY 68													
FY 67													
FY 66													
FY 65													
FY 64													
FY 63													
FY 62													
FY 61													
FY 60													
FY 59													
FY 58													
FY 57													
FY 56													
FY 55													
FY 54													
FY 53													
FY 52													
FY 51													
FY 50													
FY 49													
FY 48													
FY 47													
FY 46													
FY 45													
FY 44													
FY 43													
FY 42													
FY 41													
FY 40													
FY 39													
FY 38													
FY 37													
FY 36													
FY 35													
FY 34													
FY 33													
FY 32													
FY 31													
FY 30													
FY 29													
FY 28													
FY 27													
FY 26													
FY 25													
FY 24													
FY 23													
FY 22													
FY 21													
FY 20													
FY 19													
FY 18													
FY 17													
FY 16													
FY 15													
FY 14													
FY 13													
FY 12													
FY 11													
FY 10													
FY 09													
FY 08													
FY 07													
FY 06													
FY 05													
FY 04													
FY 03													
FY 02													
FY 01													
FY 00													
FY 99													
FY 98													
FY 97													
FY 96													
FY 95													
FY 94													
FY 93													
FY 92													
FY 91													
FY 90													
FY 89													
FY 88													
FY 87													
FY 86													
FY 85													
FY 84													
FY 83													
FY 82													
FY 81													
FY 80													
FY 79													
FY 78													
FY 7													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								March 1996
OTHER PROCUREMENT / Other Support Equipment		SPECIAL EQUIPMENT FOR USER TESTING (MA6700)								
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
XM15S										
A. ACQ ANT DOCUMENTS/FY95	GTRI/ATLANTA, GA	CPFF/SS	MICOM, RSA, AL	Jun-95	Jun-96	1	499	YES	NO	
A. INITIAL SPARES/FY97	GTRI/ATLANTA, GA	CPFF/SS	MICOM, RSA, AL	Oct-96	May-97	1	911	YES	NO	
XMTAR										
B. UPGRADE SOFTWARE/FY96	ERICSSON/SWEDEN	CPFF/SS	MICOM, RSA, AL	Mar 96	Sep-96	1	500	YES	NO	
XM43S										
C. NIGHT VISION CAMERA/FY95	GTRI/ATLANTA, GA	CPFF/SS	MICOM, RSA, AL	Jan-95	Jan-95	2	145	YES	NO	
TS DIAGNOSTIC/FMS										
D. DIAG/CALIB SPT TESTING/FY95	NRC/HUNTSVILLE, AL	CPFF/LC	MICOM, RSA, AL	Jun-95	Jul-95	1	895	YES	NO	
D. DIAG/CALIB SPT TESTING/FY96	UNDETERMINED	CPFF/LC	MICOM, RSA, AL	Mar-96	Sep-96	1	253	YES	NO	
XMHKS/HJS/AAJ										
E. ACTUAL AIRCRAFT MI-17/FY95	MAVERICK/ENTERPRISE, AL	FP/SS	MICOM, RSA, AL	May-95	May-95	2	1,225	YES	NO	
REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1986
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Other Support Equipment					SPECIAL EQUIPMENT FOR USER TESTING (MA6700)						
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
XMC3S											
F. MOBILE THREAT SYSTEM COMMAND STATION SHELTER/FY95	GTE, MT VIEW, CA	CPFF/SS	MICOM, RSA, AL	Apr-95	Jul-95	1	400	YES	NO		
F. OFF THE SHELF PROCESSING STATION FOR INTEG THREAT SIM NET/FY96	GTE, MT VIEW, CA	CPFF/SS	MICOM, RSA, AL	Feb-96	May-96	1	500	YES	NO		
F. VIRT ENVIRONMENT INTERFACE UNIT/FY97	GTE, MT VIEW, CA	CPFF/SS	MICOM, RSA, AL	Oct-96	May-97	1	500	YES	NO		
XM17S											
G. XM17S VEHICLE*/FY95	GTRI, ATLANTA, GA	CPFF/SS	MICOM, RSA, AL	Jun-95	Feb-96	1	1,466	YES	NO		
G. XM17S ANTENNA*/FY96	GTRI, ATLANTA, GA	CPFF/SS	MICOM, RSA, AL	Mar-96	Sep 96	1	1,954	YES	NO		
XM18S											
H. XM18S SEEKER/FY95	DBA, MELBOURNE, FL	T&M/SS	MICOM, RSA, AL	Mar-95	Sep-95	4	1,990	YES	NO		
H. XM18S NDI SCORING PACKAGES/FY96	DBA, MELBOURNE, FL	T&M/SS	MICOM, RSA, AL	Mar 96	Sep 96	5	498	YES	NO		
XM330ES											
I. XM330ES COMMUNICATIONS JAMMER/FY97	GTE, MT VIEW, CA	CPFF/SS	MICOM, RSA, AL	Oct-96	Sep-97	1	1,500	YES	NO		
REMARKS: *Includes Technical Manuals											

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										SPECIAL EQUIPMENT FOR USER TESTING (MA6700)										DATE										March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
COST ELEMENTS										M F R										S E R V										PROC QTY Each										ACCEP. PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										O C T N O V D E C										Fiscal Year 95										Fiscal Year 96										L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																																																																						Calendar Year 95										Calendar Year 96										A T E R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT: ARMY 3 /Other Support Equipment		MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) (MA6700)									
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)				9.0	10.2	10.9	13.0	20.2			

DESCRIPTION: THE MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) IS AN INSTRUMENTATION SYSTEM CAPABLE OF REAL TIME MONITORING FOR THE PURPOSE OF DATA COLLECTION AND ANALYSIS, AND REAL TIME CASUALTY ASSESSMENT. TEST DATA IS COLLECTED WHILE MONITORING CONTROLLING, AND RECORDING FORCE-ON-FORCE ENGAGEMENTS IN A BATTLEFIELD ENVIRONMENT. MAIS WILL SUPPORT: CONDUCT OF ARMY/OSD OPERATIONAL FORCE DEVELOPMENT TESTS, EVALUATIONS ON CURRENT AND FUTURE TACTICAL EQUIPMENT, ASSESSMENT OF CHANGES TO DOCTRINE, ORGANIZATION, AND TRAINING METHODS.

JUSTIFICATION: THE MAIS FY 97 PROCUREMENT BUYS 50 PLAYER UNITS AND ENGINEERING SUPPORT. THE MAIS WILL PROVIDE THE CAPABILITY TO MEET THE TEST AND EVALUATION NEEDS FOR FUTURE HARDWARE, TACTICS, AND ORGANIZATIONS IN AN OPERATIONAL ENVIRONMENT. THE PLAYER UNITS WILL BE MOUNTED ON GROUND VEHICLES, FIXED WING AIRCRAFT, HELICOPTERS, CREW SERVED WEAPONS AND INDIVIDUAL SOLDIERS TO TEST EMERGING AND UPGRADES TO WEAPON SYSTEMS IN A COMBAT REALISTIC FIELD ENVIRONMENT.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON MAIS (MA6700)				C. MANUFACTURER NAME LORAL, Akron Ohio		D. DATE March 1996			
ID	CD	OPA Cost Elements	FY 94			FY 95			FY 96			FY 97				
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000		
1. Major User Test Instrumentation (MUTI)																
A. MAIS Ground Vehicle Player Unit															8,720	174
B. Engineering Support															280	
TOTAL															9,000	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	March 1996
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								MAIS (MA6700)	
OTHER PROCUREMENT / 3 / Other Support Equipment		CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. MUTI											
A. MAIS Ground Vehicle Player Unit/FY97		LORAL, Akron, Ohio	OPTION*	Naval Air Warfare Center, Orlando, FL	Jan-97	Feb-98	50	1,744	NO	YES	Dec-96
<b>REMARKS:</b> *Exercise production option to a contract competitively awarded June 1991, following completion of Research and Development effort. Quantities are reduced due to increase in contractor cost.											







**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY		DATE	
		March 1996	

OTHER PROCUREMENT / Other Support Equipment		P-1 ITEM NOMENCLATURE					OPTEC - Special Equipment		
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY		0	0	0	0	0	0	0	
COST (in millions)		3.6	3.2	1.6	2.1	2.0	2.0	3.3	

DESCRIPTION: TO REMAIN AHEAD OF NEW WEAPONS AND COMMUNICATIONS SYSTEMS, THIS PROJECT PROVIDES A COST EFFECTIVE DATA COLLECTION, TELEMETRY, AND PROCESSING CAPABILITY TO CONDUCT CREDIBLE OPERATIONAL TESTS AS REQUIRED BY THE DOD AND CONGRESS. IT MODERNIZES OPTEC'S INSTRUMENTATION CAPABILITY AND DEVELOPS NON-MAJOR INSTRUMENTATION THAT IS NON-INTRUSIVE, MORE RELIABLE, AND PROVIDES NEAR REAL-TIME ACCESS OF DATA FOR TEST CONTROL AND ANALYSIS BY INTEGRATING COMBAT SIMULATORS INTO OPERATIONAL TESTS AND BY INSERTING TECHNOLOGY ADVANCES INTO OPTEC INSTRUMENTATION. IT SUPPORTS REAL-TIME CASUALTY ASSESSMENT (RTCA) PROVIDING SIMULATED ATTRITION OF FORCES.

## JUSTIFICATION:

IN FY97 THE OPERATIONAL TEST AND EVALUATION COMMAND'S OPTEC TEST INSTRUMENTATION PROGRAM (OTIP) PROCURES: RADAR SIGNAL EMULATOR TO TRAIN COMMAND, CONTROL, AND COMMUNICATION THREAT SIMULATOR CREWS; REQUIRED NON-INTRUSIVE DATA COLLECTION SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT TRACKING AND RECORDING SYSTEM; MOBILE COMMAND POST TO PROVIDE COMMAND, COORDINATION AND RANGE CONTROL FOR TESTS RUNNING CONCURRENTLY; XMHKS CRITICAL SPARES KIT TO SUPPORT THREAT SIMULATOR; AND REPLACEMENT SYSTEM FOR THE CURRENT MICROWAVE LINE-OF-BEARING SYSTEM IN THE ELECTRONIC WARFARE MONITORING FACILITY.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 3 / Other Support Equipment				B. WEAPON OPTEC - Special Equipment				C. MANUFACTURER NAME				D. DATE March 1996	
ID	CD	FY 94		FY 95		FY 96		FY 97							
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	Each	\$000
K-Band Test Observation Pairing System (KTOPS) (Direct Weapons Fire Simulator)					1000		6	167							
Video Capture, High Resolution/Speed Scanning Card & 8MM Tape Drive					100		1	100							
MTEC Range Transporter Upgrade					700		1	700							
Plastic Injection Molding Machine					140		1	140							
Fire Support Test Range Data Collection System					120		1	120							
Threat Simulator Rotor Blade Set					157		1	157							
Automated Drafting System					66		1	66							
Position Location Accuracy Enhancement					231		1	231							
EW Threat Simulator Amplifier Upgrade					297		3	99							
Early Warning Air Defense C3 Stimulator					350		1	350							
High Performance Aircraft NAV/POS Tracking/Recording System					485		3	162					710	6	118
Precision Range Integrated Maneuver Exercise (PRIME)									2956		3	985			
Radar Signal Emulator													148	1	148
EW/MF Microwave Wide Bandwidth Receiver									248		1	248			
Mobile Command Post													180	1	180
XMHS Critical Spares Kit													217	1	217
Microwave LOB System Replacement													383	1	383
<b>TOTAL</b>					3646				3204				1638		

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE			DATE		
OTHER PROCUREMENT / Other Support Equipment				OPA INITIAL SPARES (MY0035)			March 1996		
FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
	0	0	0	0	0	0	0		
QUANTITY									
COST (in millions)	61.2	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Description: Provides for procurement of spares to support initial fielding of new or modified end items.									
Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army business area of the Defense Business Operations Fund. All OPA spares reflected in Budget Activity 3 (Other Support Equipment) were transferred to the new Budget Activity 4 (Initial Spares) FY 96 and beyond. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:									
FAAD C2		1.4		0.0					0.0
CSSCS		1.4		0.0					0.0
AFATDS		2.3		0.0					0.0
IMETS (TIARA)		0.4		0.0					0.0
Digital Topographic Spt Sys (DTSS) (TIARA)		1.0		0.0					0.0
SINGARS		1.9		0.0					0.0
Defense Satellite Communications		8.4		0.0					0.0
NAVSTAR Global Communications		0.4		0.0					0.0
TRI-TAC		7.3		0.0					0.0
Army Data Distribution System (ADDS)		0.5		0.0					0.0
TACSATCOM		2.1		0.0					0.0
Joint Stars (Army) (TIARA)		3.1		0.0					0.0
Night Vision Devices		2.3		0.0					0.0
Firefinder		0.7		0.0					0.0
Signal Warfare Equip		10.6		0.0					0.0
(Cont Page 2)									

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE			DATE		
OTHER PROCUREMENT / Other Support Equipment				OPA INITIAL SPARES (MY0035)			March 1996		
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY									
COST (in millions)									
(Cont)		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
PM EW/RSTA PEO IEW			0.1	0.0		0.0			
Ground Based Common Sensor			0.9	0.0		0.0			
EUUCOM Cmd Ctrs			0.2	0.0		0.0			
Power Projection C4			1.3	0.0		0.0			
DMS Army			0.2	0.0		0.0			
Corps/Theater ADP Svc Ctr (CTASC)			1.0	0.0		0.0			
LOGTECH			0.1	0.0		0.0			
STAMIS Tactical Computers			1.2	0.0		0.0			
TACCIMS			0.1	0.0		0.0			
WW Tech Con Imp Prog (WWTCIP)			0.1	0.0		0.0			
TMDE Modernization (TMOD)			3.1	0.0		0.0			
Strategic C2 Facilities			0.2	0.0		0.0			
COMSEC Info Security			3.9	0.0		0.0			
TROJAN (TIARA)			2.2	0.0		0.0			
AN/TYQ-52			1.0	0.0		0.0			
NBC Protection System			0.2	0.0		0.0			
NBC Decon System			0.2	0.0		0.0			
NBC Contamination Avoid			0.6	0.0		0.0			
Detecting Set, Mine, AN/PS-12			0.1	0.0		0.0			
Items Less Than \$2.0M (Const Equip)			0.3	0.0		0.0			
Items Less Than \$2.0M (MHE)			0.2	0.0		0.0			
Smoke Obscure Target			0.2	0.0		0.0			
TOTAL			61.2	0.0		0.0			



**THIS PAGE IS INTENTIONALLY BLANK**

# BUDGET ITEM JUSTIFICATION SHEET

DATE  
March 1996

APPROPRIATION / BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT /Other Support Equipment

TRACTOR VAPOR (MA8975)

	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)	0.0	0.0	2.2	2.2	4.3	6.2	4.7	2.5

DESCRIPTION: Funds will provide for the replacement of critical components that are approaching end of shelf-life and new equipment required to maintain mission capability for a classified program. Current industry practice of minimizing inventory and manufacturing only to order has caused revisions in operational plans that formerly depended on rapid procurements. Reduced demand for heavy industrial process components and the subsequent shrinkage of the U.S. manufacturing base in casting, forging, and fabrication have caused lead times to exceed the acceptable mobilization period. Procurement of these components will ensure successful mission responses to emergency situations.

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							INITIAL SPARES - TSV (DS1000)		
OTHER PROCUREMENT / Initial Spares		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
QUANTITY			0	0	0	0	0	0	0	0	
COST (in millions)			0.0	1.0	0.1	0.1	3.4	0.1	0.0	0.0	
Description: Provides for procurement of spares to support initial fielding of new or modified end items.											
Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army business area of the Defense Business Operations Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:											
FMTV											
PEO Other											
TOTAL											

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY							March 1996
OTHER PROCUREMENT / Initial Spares		P-1 ITEM NOMENCLATURE					INITIAL SPARES - C&E (BS9100)
FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY	0	0	0	0	0	0	0
COST (in millions)	0.0	80.4	60.5	66.3	77.0	45.4	59.8
<p>Description: Provides for procurement of spares to support initial fielding of new or modified end items.</p> <p>Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army business area of the Defense Business Operations Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:</p>							
FAAD C2							
CSSCS							
AFATDS							
ASAS (TIARA)							
PEO CCSS							
Digital Topographic Spt Sys (DTSS) (TIARA)							
SINCGARS							
Defense Satellite Communications							
NAVSTAR Global Communications							
TRI-TAC							
Army Data Distribution System (ADDS)							
TCSATCOM							
Joint Stars (Army) (TIARA)							
Night Vision Devices							

**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		DATE							
		March 1996							
		P-1 ITEM NOMENCLATURE							
		INITIAL SPARES - C&E (BS9100)							
		OTHER PROCUREMENT / Initial Spares							
		FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)									
(Cont)									
Firefinder				0.0	0.0	1.7			
Signal Warfare Equip				0.0	10.5	1.5			
Ground Based Common Sensor				0.0	12.9	9.9			
FAAD GBS				0.0	2.6	3.6			
Integrated Family Of Test Equip				0.0	3.8	2.6			
OPTADS MCS				0.0	0.1	0.0			
Power Projection C4				0.0	2.5	2.6			
Artillery Accuracy Equip				0.0	0.3	0.3			
IS Spt To Europe				0.0	0.1	0.1			
DMS Army				0.0	0.1	0.1			
LOGTECH				0.0	0.1	0.1			
STAMIS Tactical Computers				0.0	0.2	0.4			
TMDE Modernization (TMOD)				0.0	0.8	0.8			
Strategic C2 Facilities				0.0	0.2	0.1			
COMSEC Info Security				0.0	0.6	0.8			
TROJAN (TIARA)				0.0	1.7	1.9			
TOTAL				0.0	80.4	60.5			



**THIS PAGE IS INTENTIONALLY BLANK**

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										March 1996
OTHER PROCUREMENT / Initial Spares					P-1 ITEM NOMENCLATURE					INITIAL SPARES - OTHER SUPPORT EQUIP (MS3500)
FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY	0	0	0	0	0	0	0			
COST (in millions)	0.0	2.0	1.0	0.9	0.6	0.3	0.3			
Description: Provides for procurement of spares to support initial fielding of new or modified end items.										
Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army business area of the Defense Business Operations Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:										
NBC Protection System										
NBC Decon System										
NBC Contamination Avoid										
Items Less Than \$2.0M (Const Equip)										
Items Less Than \$2.0M (MHE)										
Smoke Obscure Target										
TOTAL										